

001 Transición Rect/Circ Genérica

Lx 2000

Ly 800

D 500

H 700

Ex 100

Ey 180

Ang 20

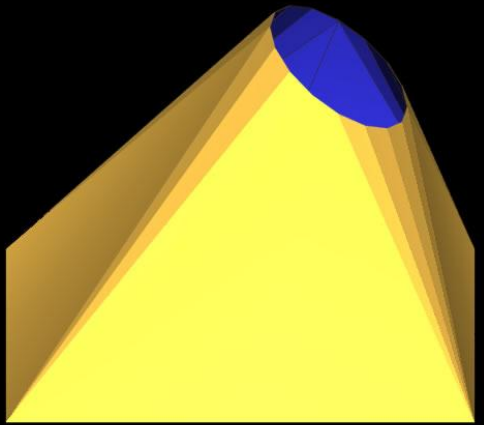
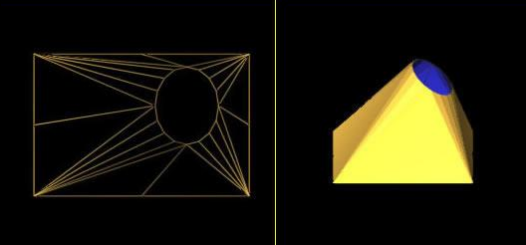
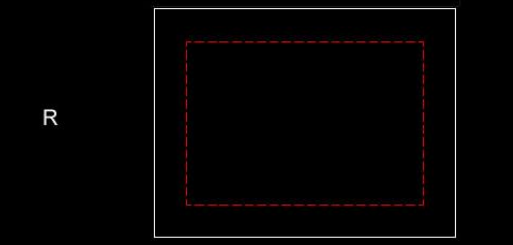
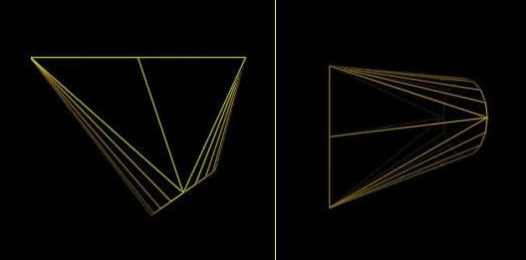
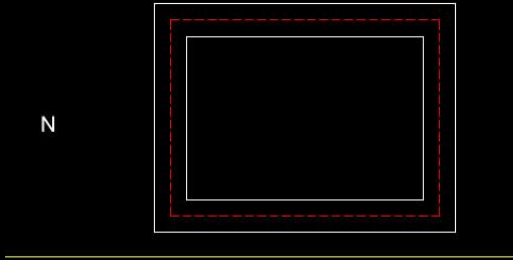
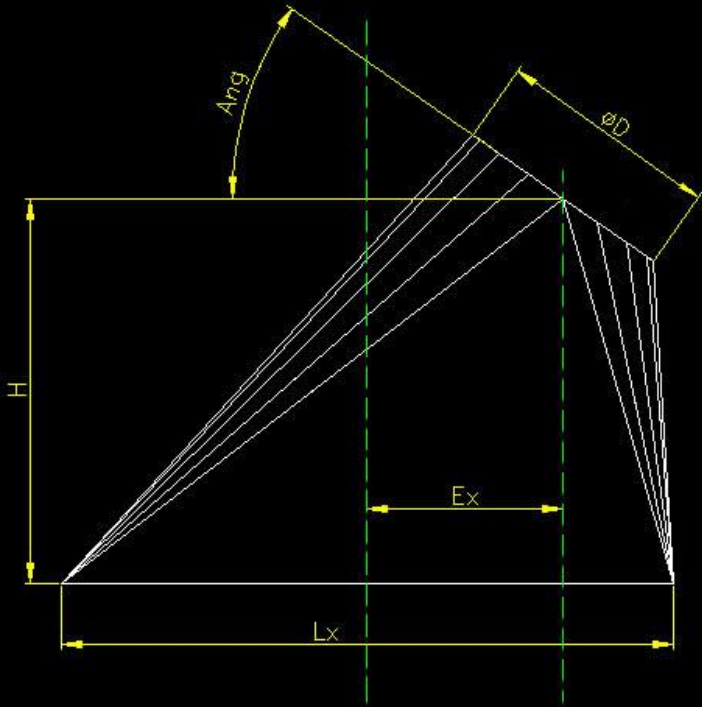
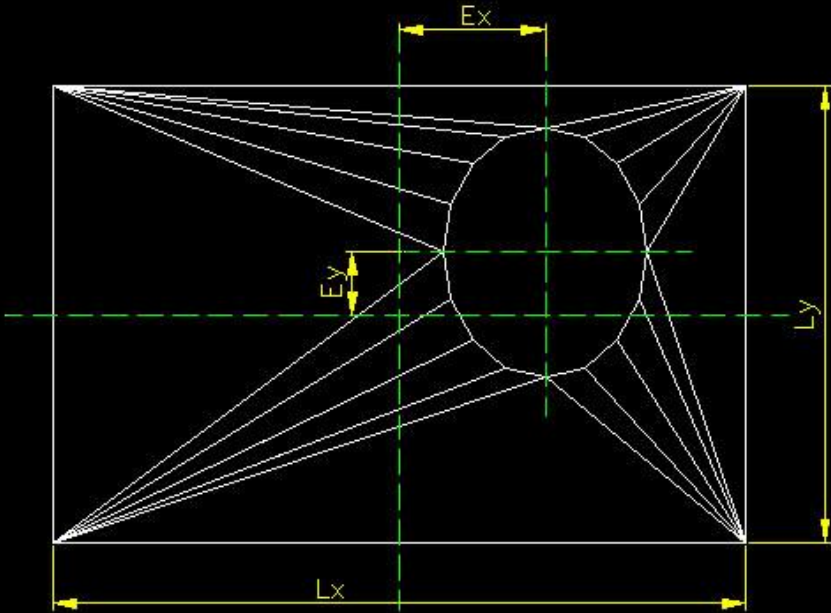
N div 16

Qty 1

Método N

Calcular 3D Sim

e 12,7 (Aço)



002 Transición Rect/Circ alineada

Lx 350

Ly 250

D 150

H 400

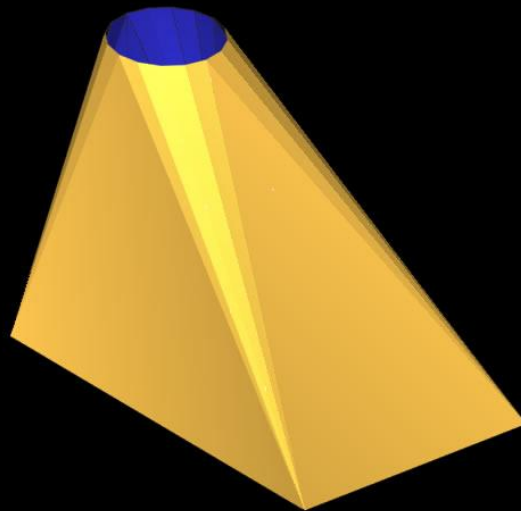
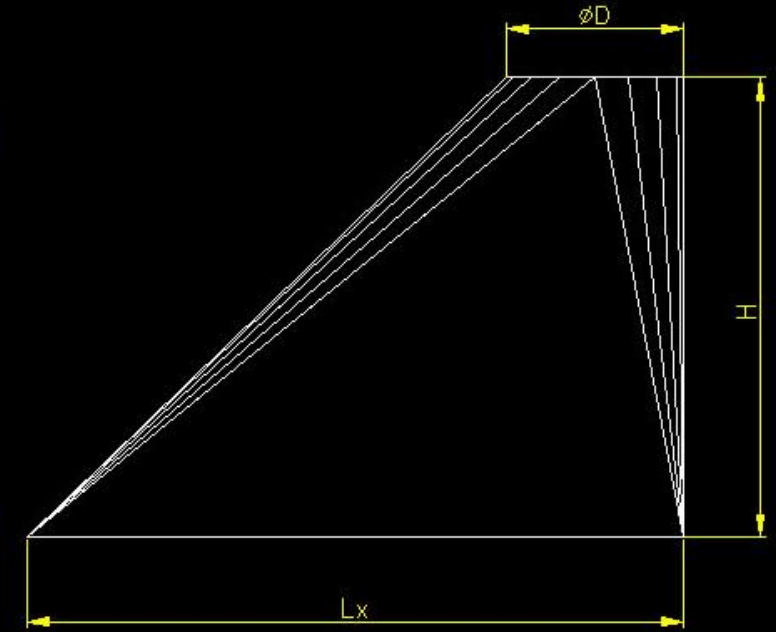
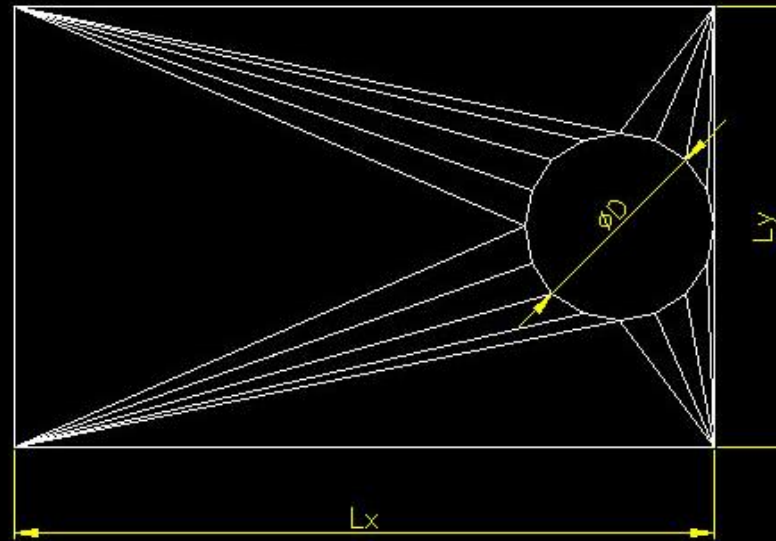
N div 16 ...

Qty 1

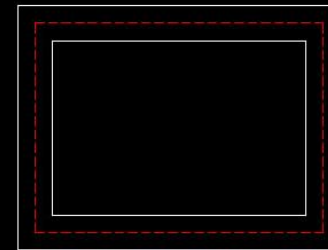
Método N ▼

Calcular 3D Sim ▼

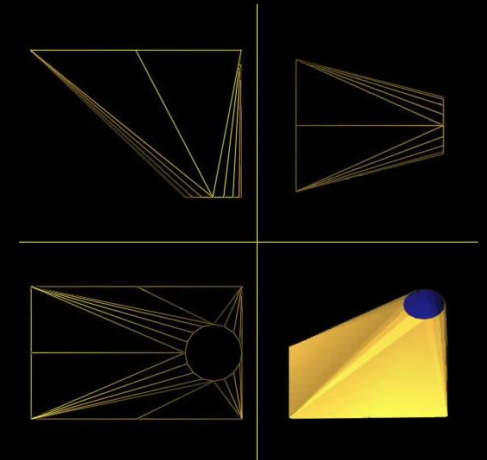
e 1 (Aço) ...



N



R



003 Transición Cuadrado Circulo

L

1000

D

400

H

875

N div

16

...

Qty

1

Método

N

▼

Calcular 3D

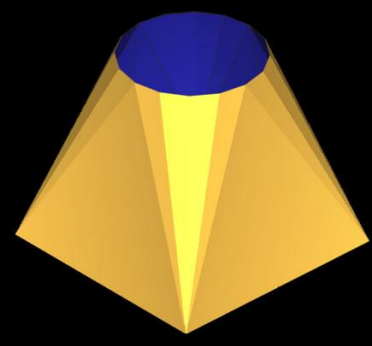
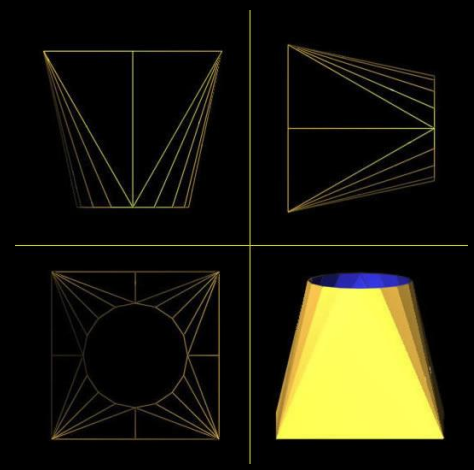
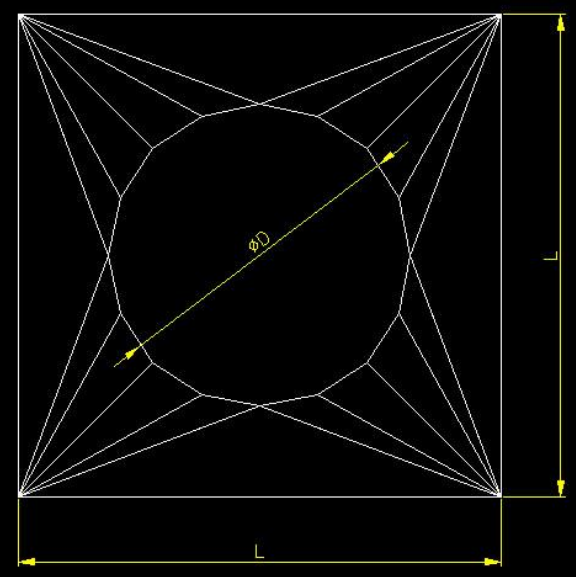
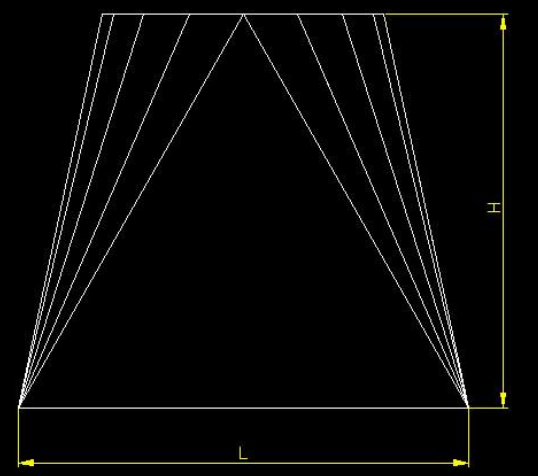
Sim

▼

e

12,7 (Aço)

...



006 Transición Rectángulo Círculo

Lx

800

Ly

600

D

300

H

800

Ex

150

Ey

100

N div

16

...

Qty

1

Método

N

▼

Calcular 3D

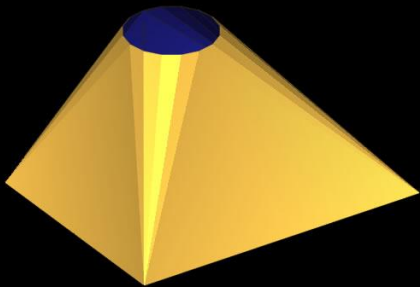
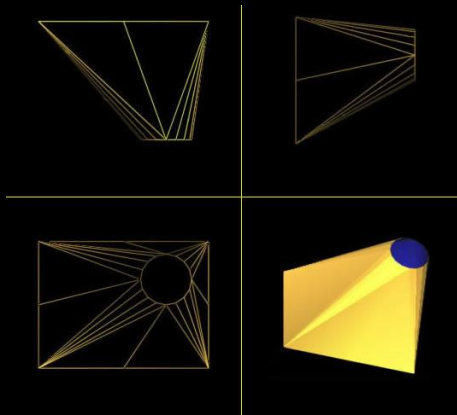
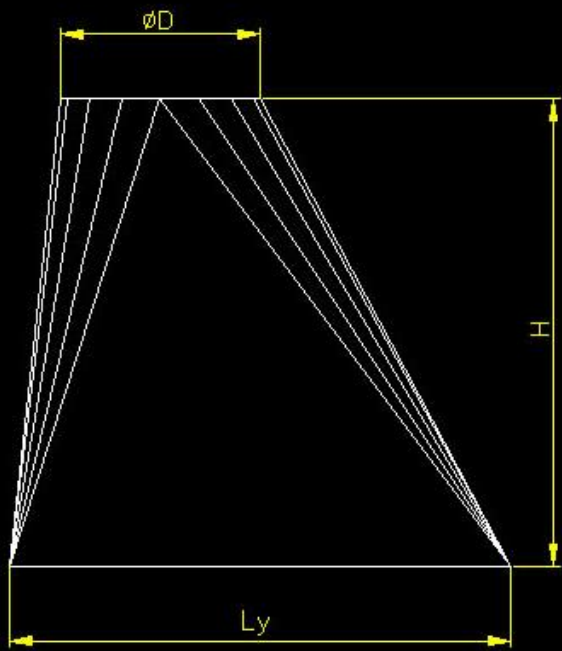
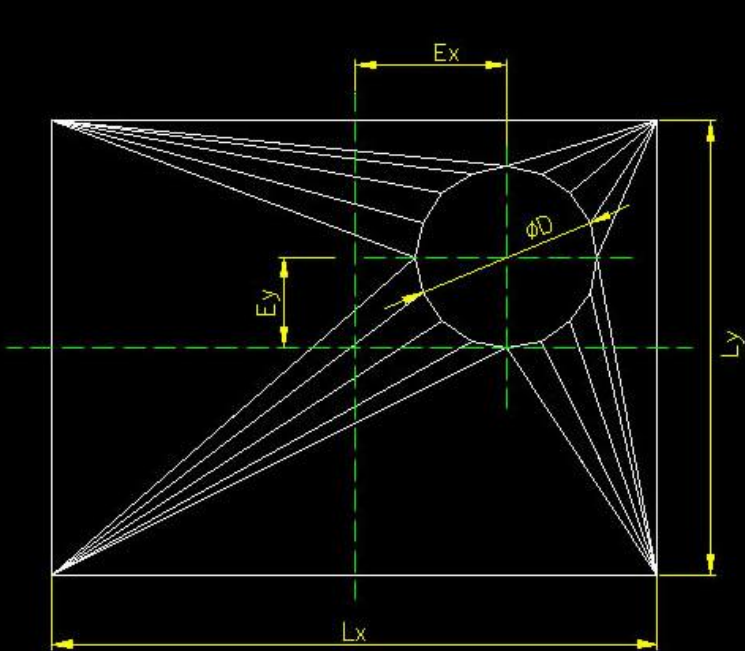
Sim

▼

e

12,7 (Aço)

...



007 Transición Rect/Circ 90º alineada

Lx

Ly

D

H

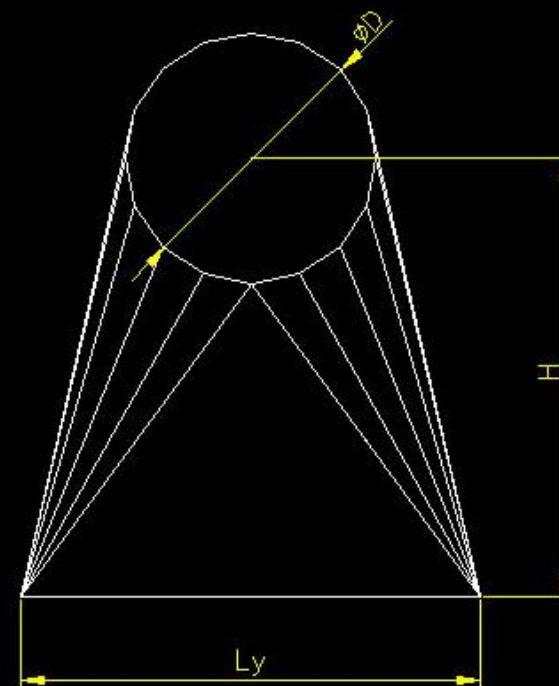
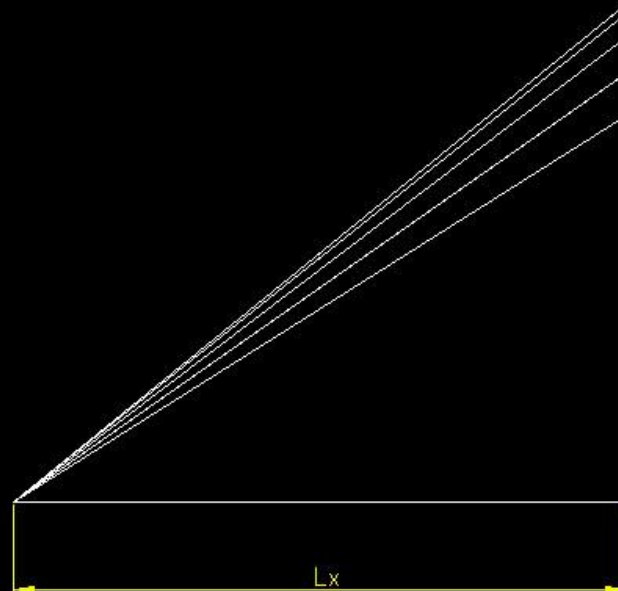
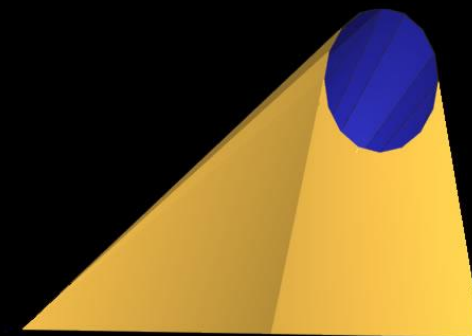
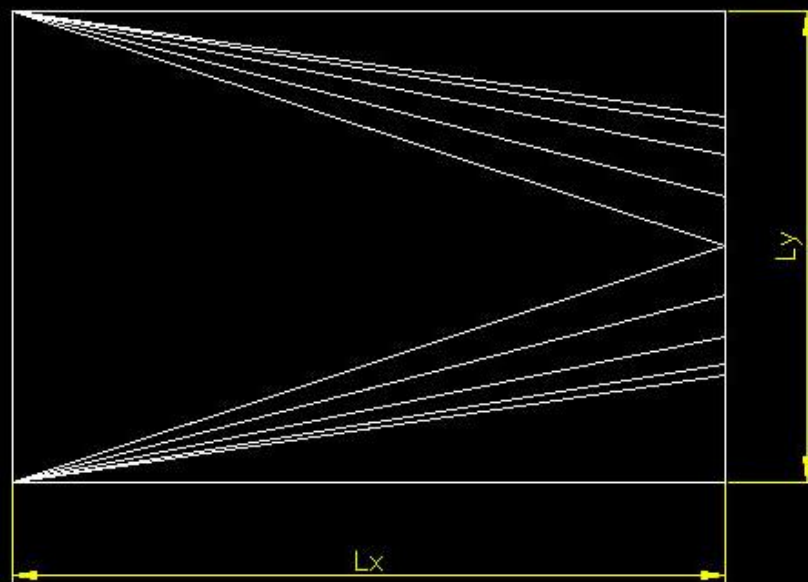
N div ...

Qty

Método

Calcular 3D

e ...



N

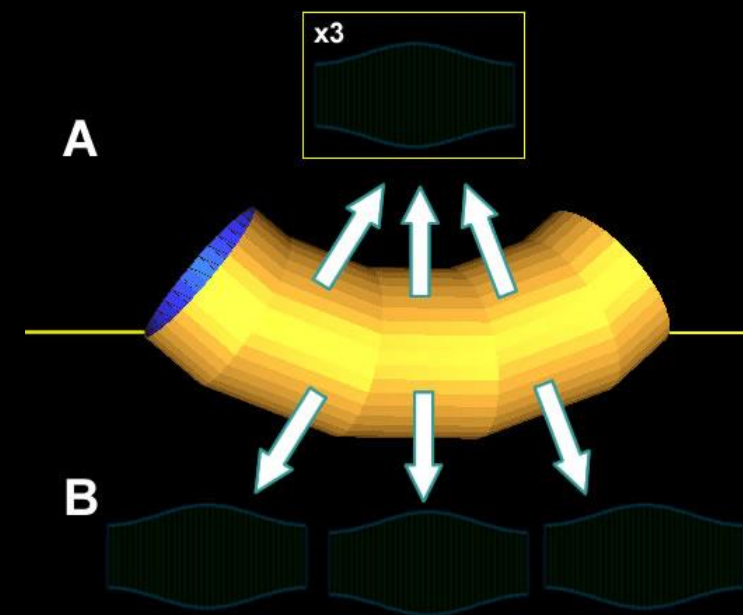
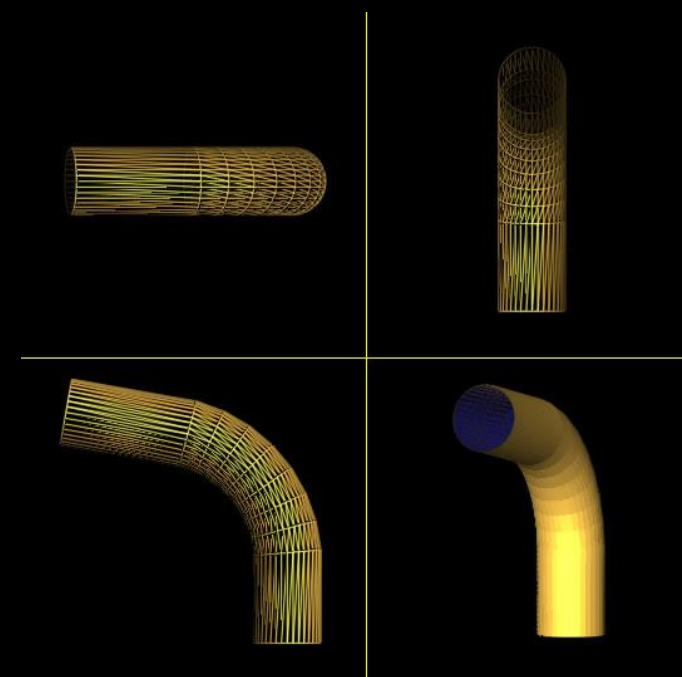
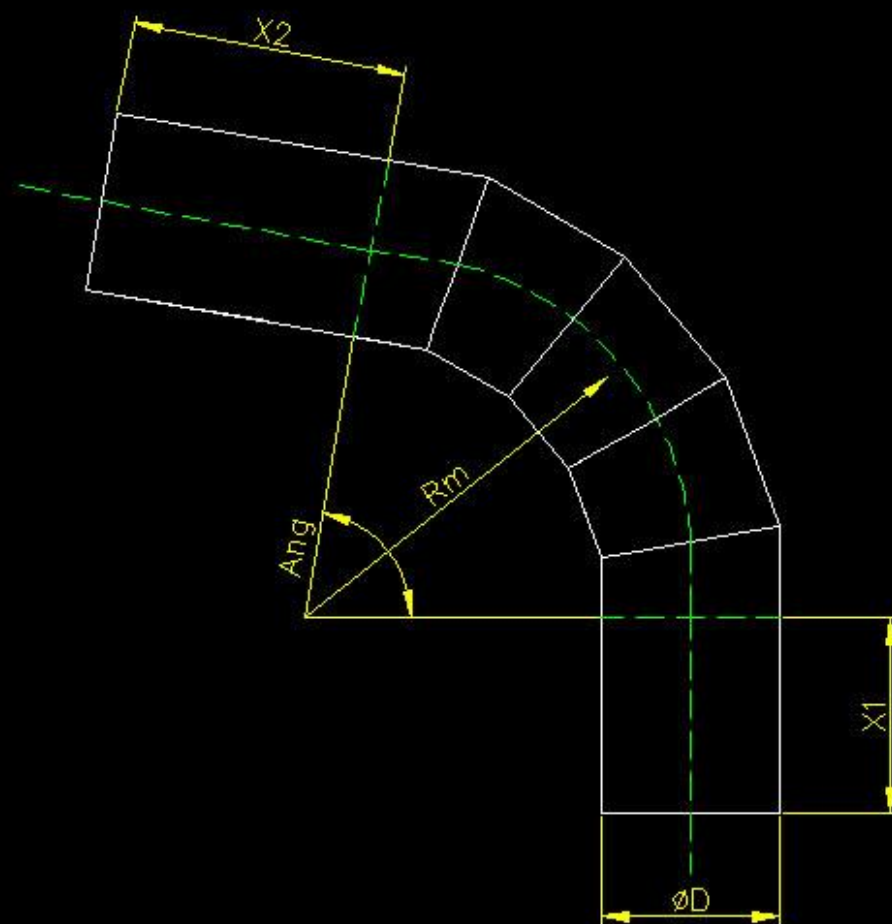


R



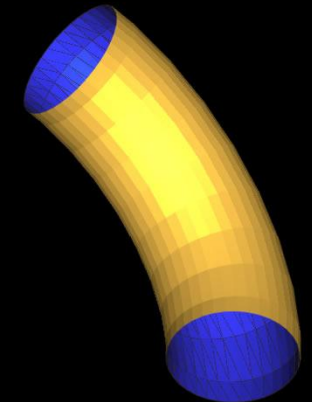
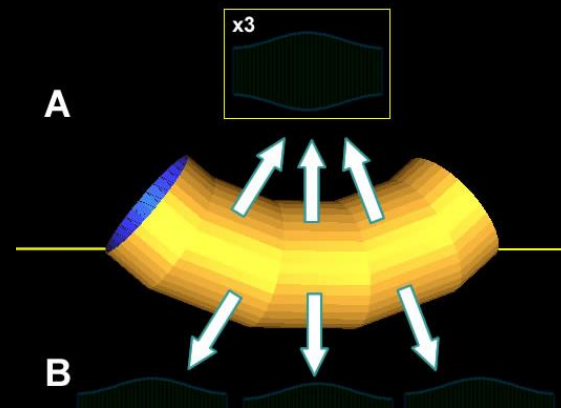
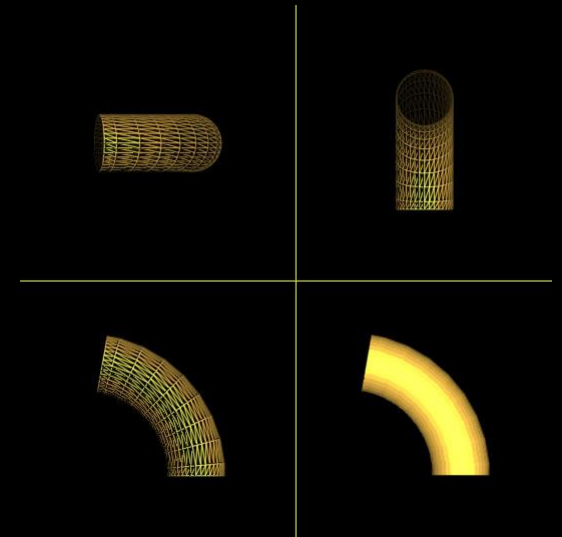
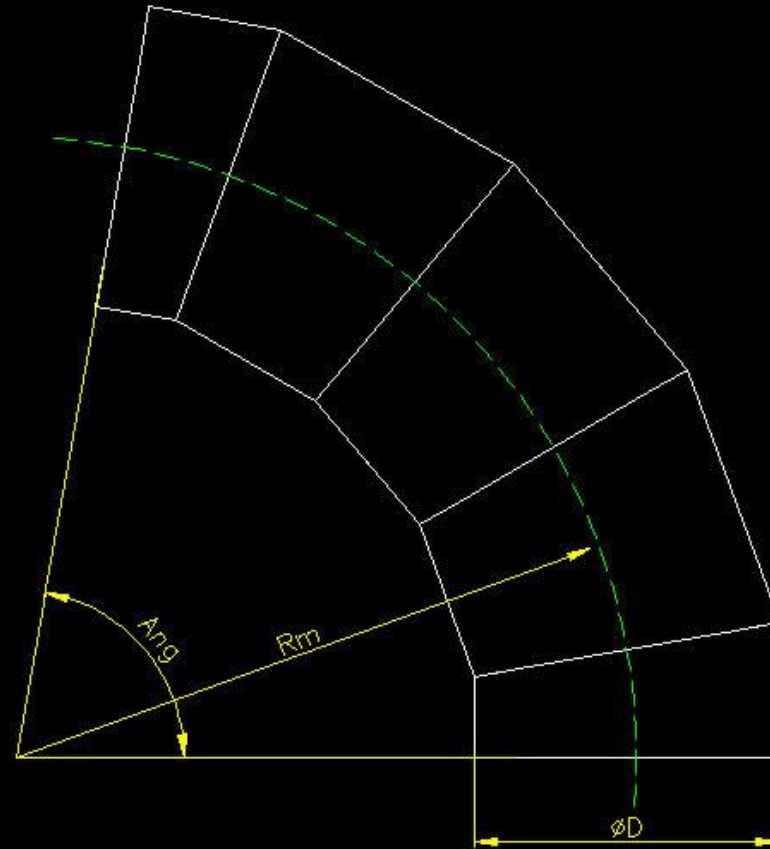
010 Curva de Sectores Genérica

D	200
Ang	60
Rm	200
Ng	4
N div	16 ...
X1	180
X2	180
Qtd	1
Tipo	A ▼
Emenda	D ▼
Calcular 3D	Sim ▼
e	1 (Aço) ...



011 - Curva de Gomos ☆

D	600
Ang	80
Rm	1200
Ng	4
N div	16 ...
Qty	1
Tipo	A ▼
Emenda	D ▼
Calcular 3D	Sim ▼
e	10 (Aço) ...



012 - Curva de Gomos 90° ☆

D

600

Rm

1200

Ng

5

N div

16

...

Qtd

1

Tipo

A

▼

Emenda

D

▼

Calcular 3D

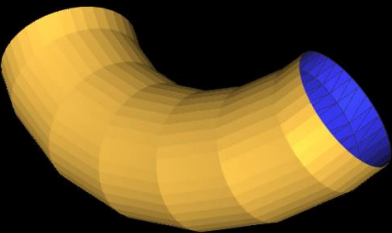
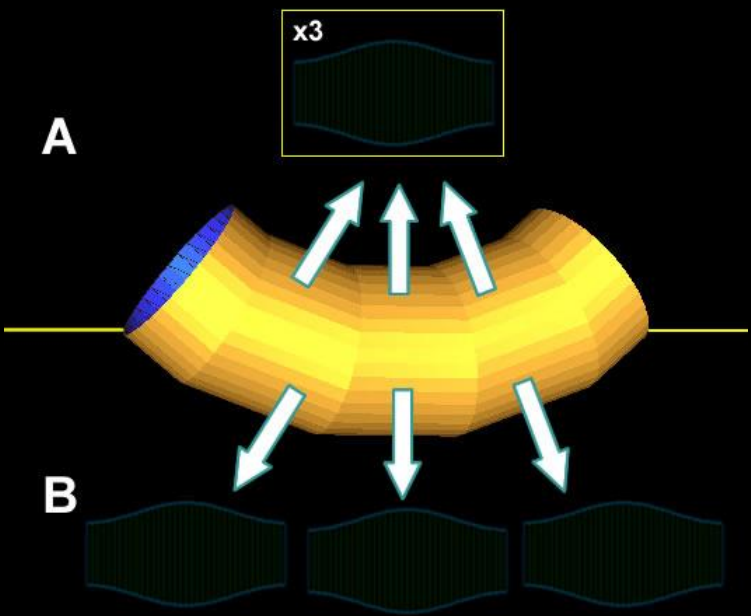
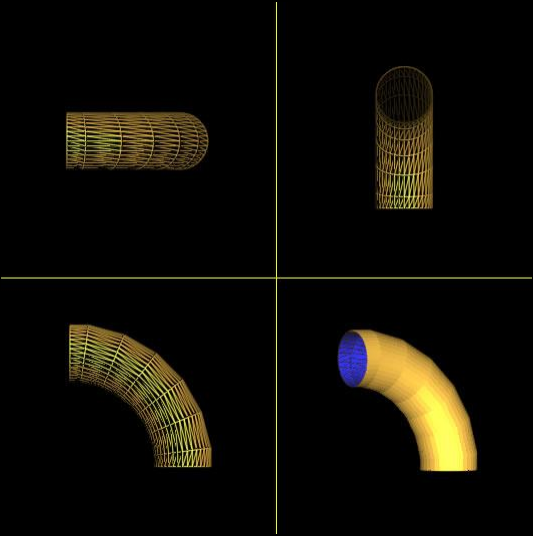
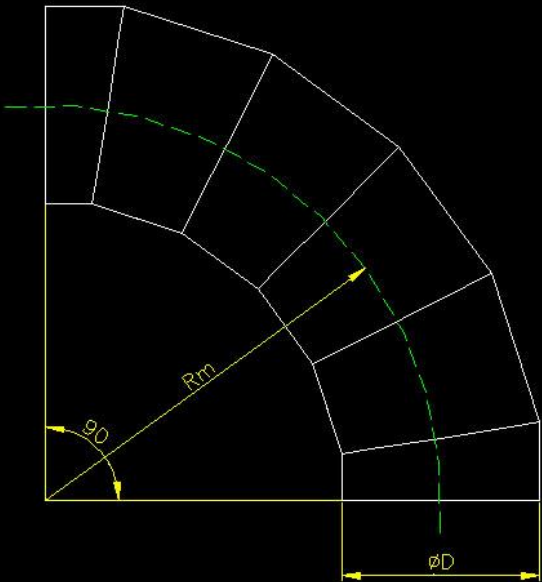
Sim

▼

e

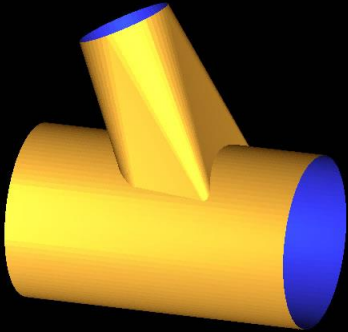
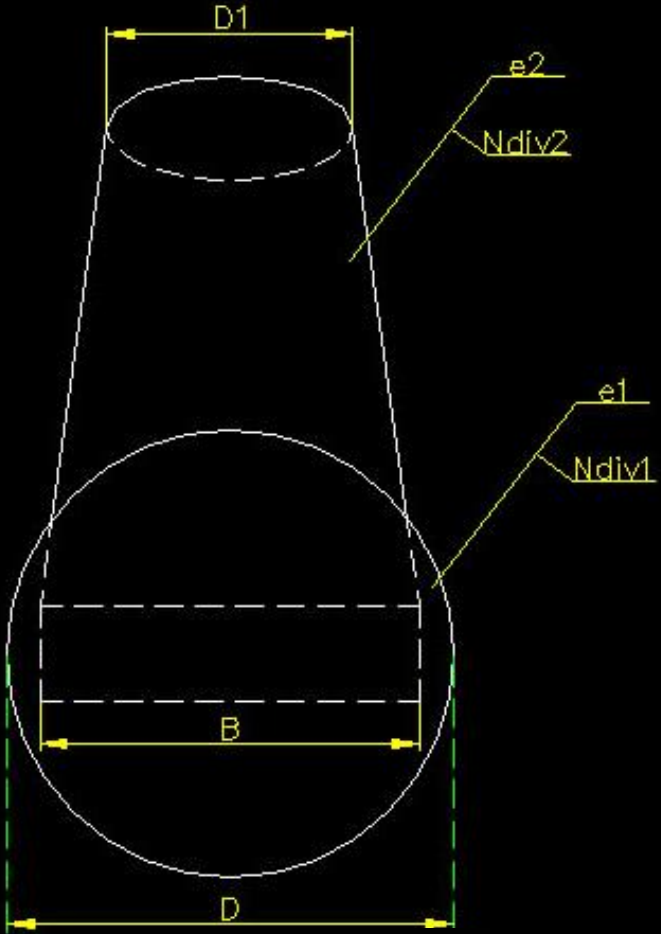
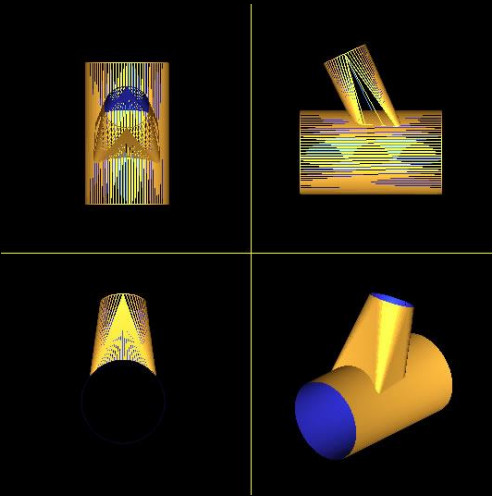
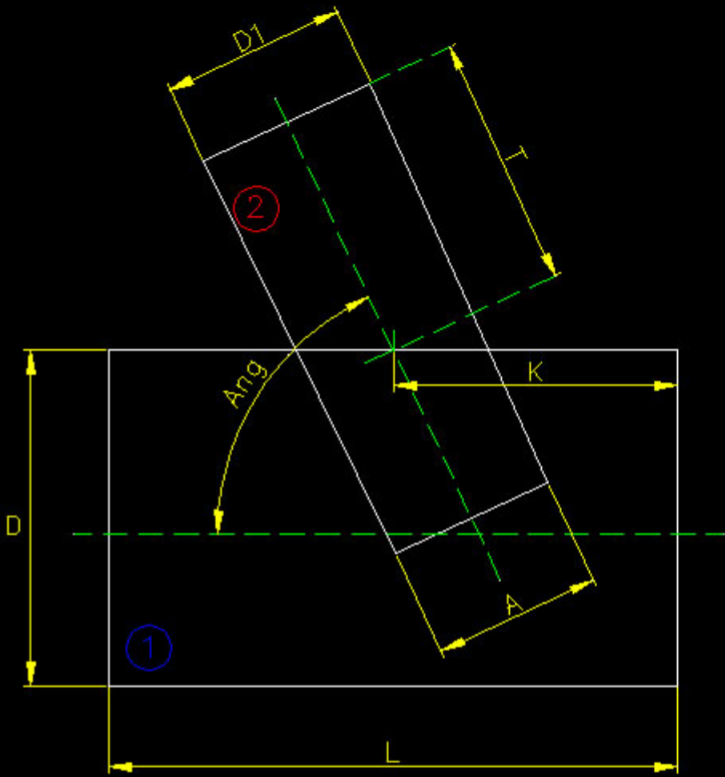
10 (Aço)

...



015 - Int. de Transição Ret/Red em Cilindro ☆

D	1000
D1	550
L	1700
K	850
T	750
A	500
B	850
Ang	65
Ndiv1	32 ...
Ndiv2	16 ...
Qty	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	10 (Aço) ...



016 - Desvio Paralelo ☆

D

400

H

1000

Ng

4

N div

16

...

X1

1000

X2

1000

Qty

1

Tipo

A

▼

Emenda

D

▼

Calcular 3D

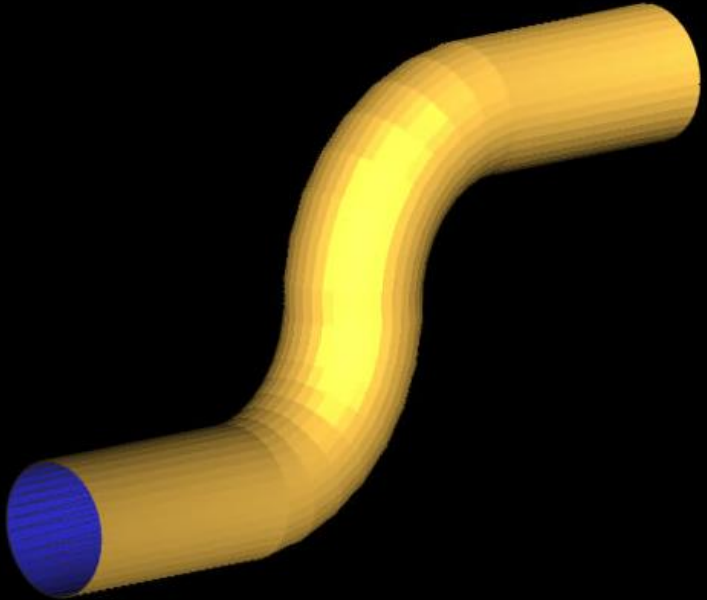
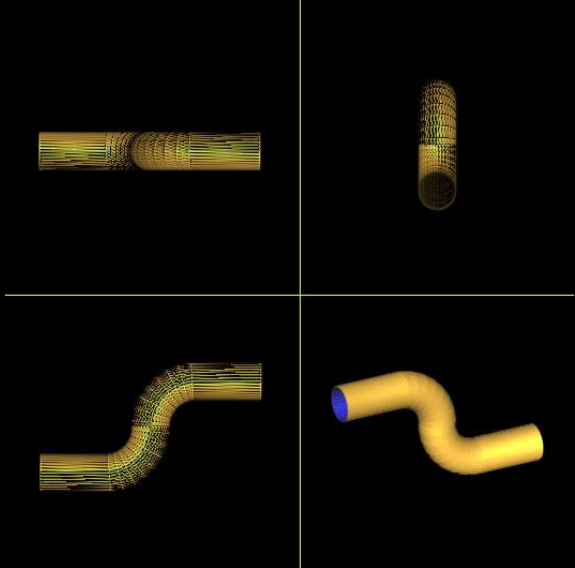
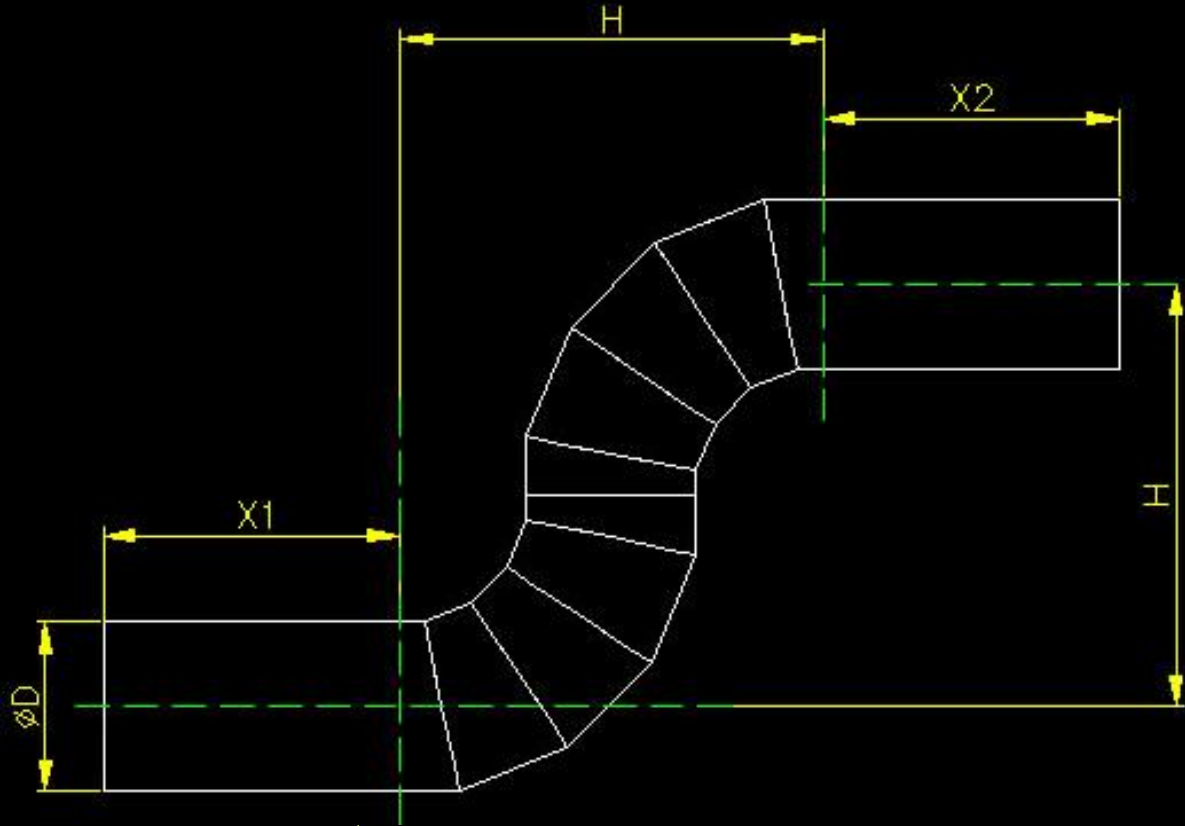
Sim

▼

e

10 (Aço)

...



017 - Desvio Alinhado ☆

D 1000

Rm 900

M 2500

H 2000

Ng 4

N div 32 ...

X1 700

X2 800

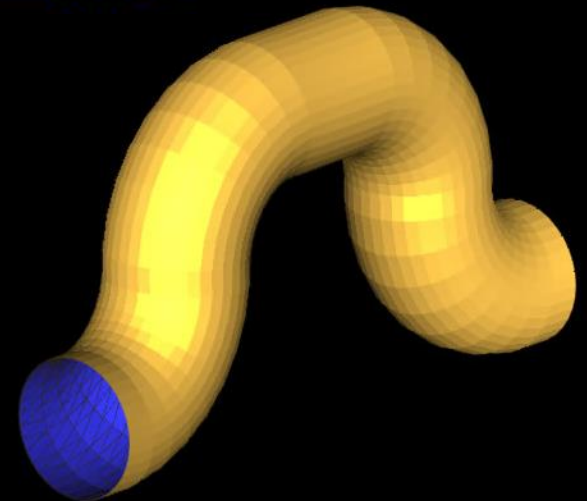
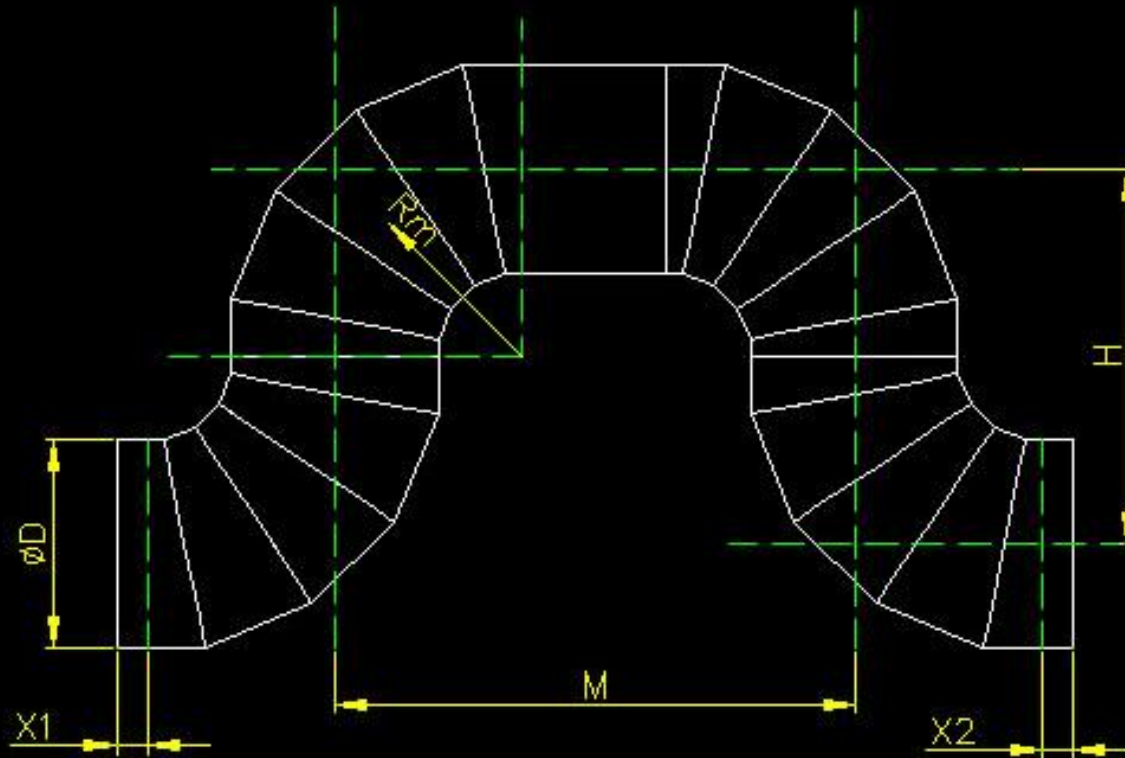
Qty 1

Tipo A ▼

Emenda D ▼

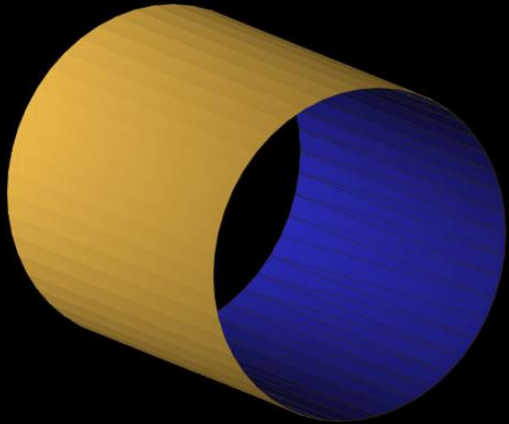
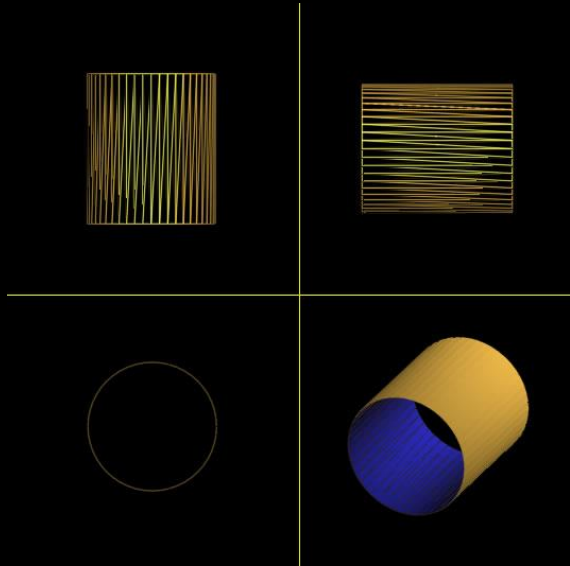
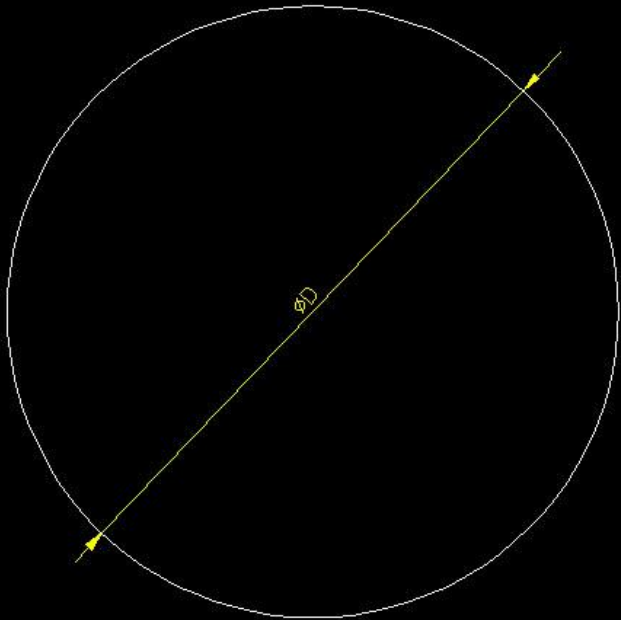
Calcular 3D Sim ▼

e 10 (Aço) ...



018 - Cilindro ☆

D	600
H	700
Qty	1
Calcular 3D	Sim
e	12,7 (Aço)



019 - Helicóide ☆

D1

1000

D2

650

X

600

Qtd

1

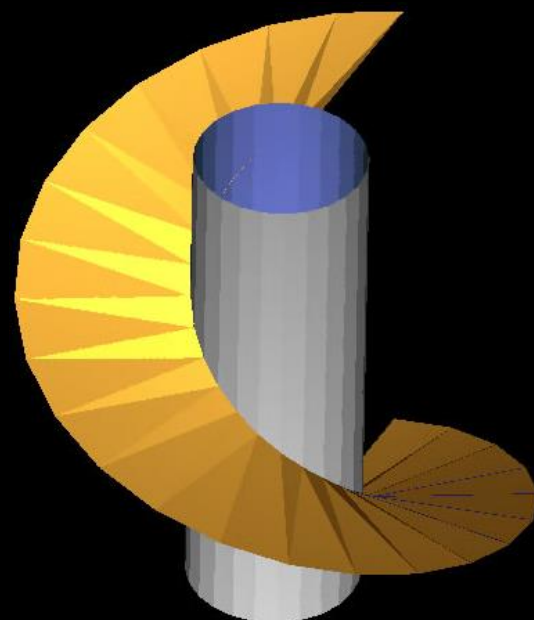
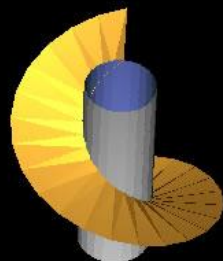
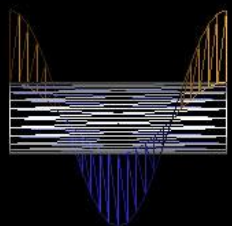
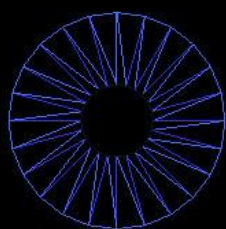
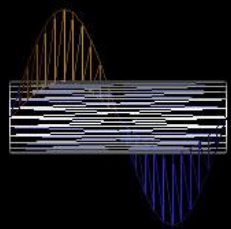
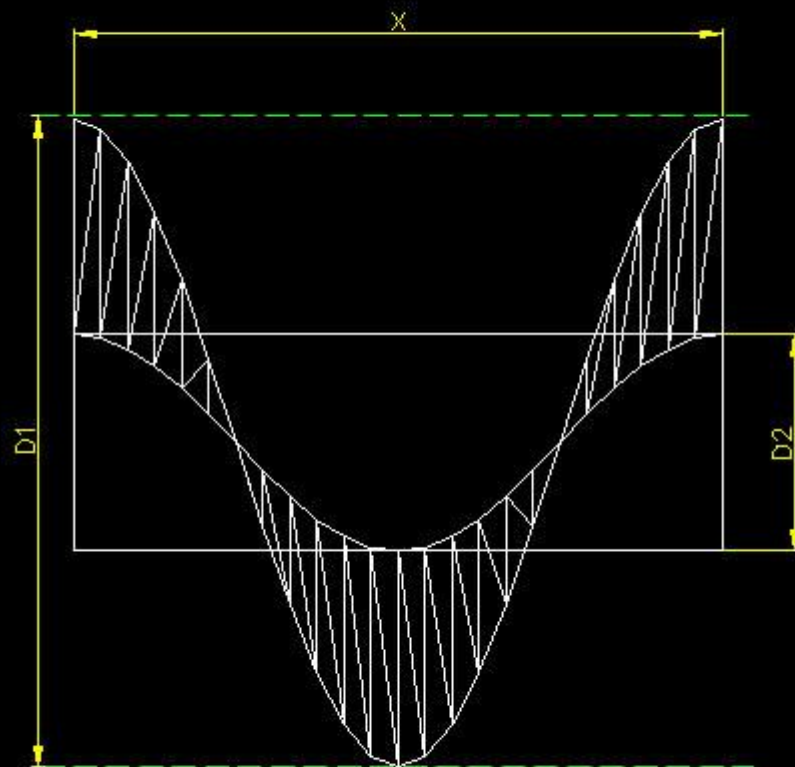
Calcular 3D

Sim ▼

e

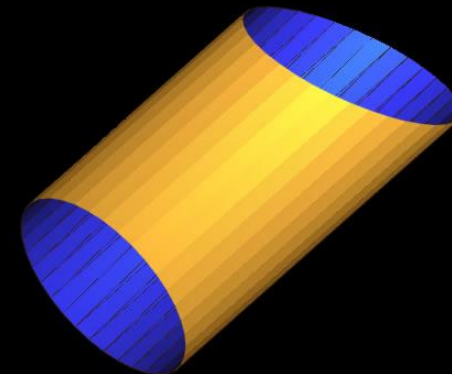
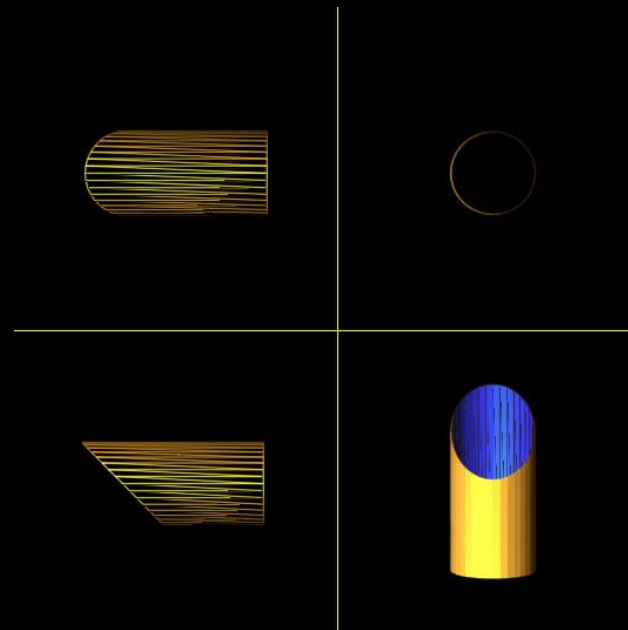
10 (Aço)

...



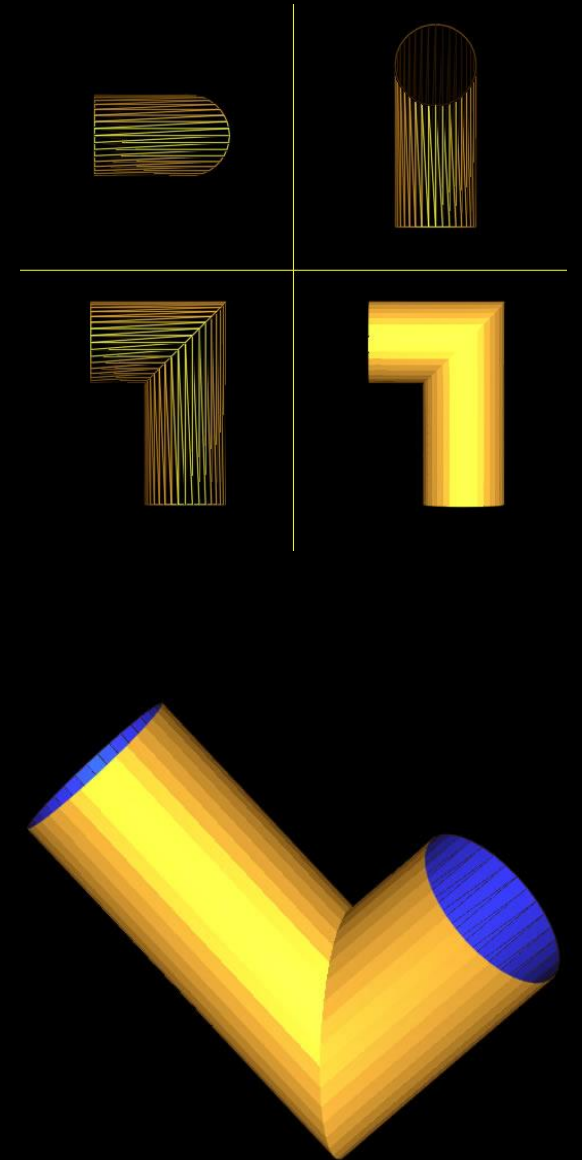
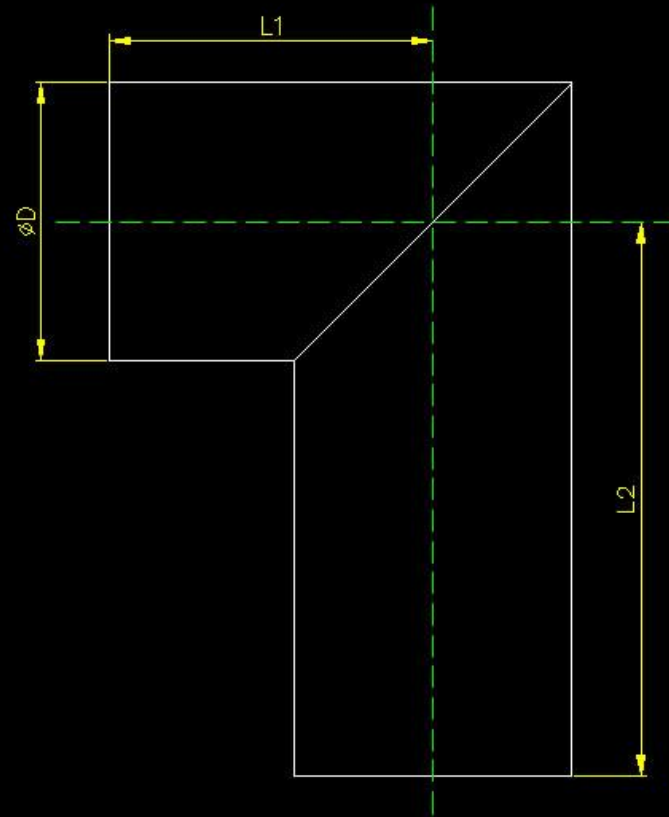
021 - Cilindro Cortado por Plano

D	600
Ang	30
L	1000
Ndiv	16 ...
Qtd	1
Calcular 3D	Sim ▼
e	12,7 (Aço) ...



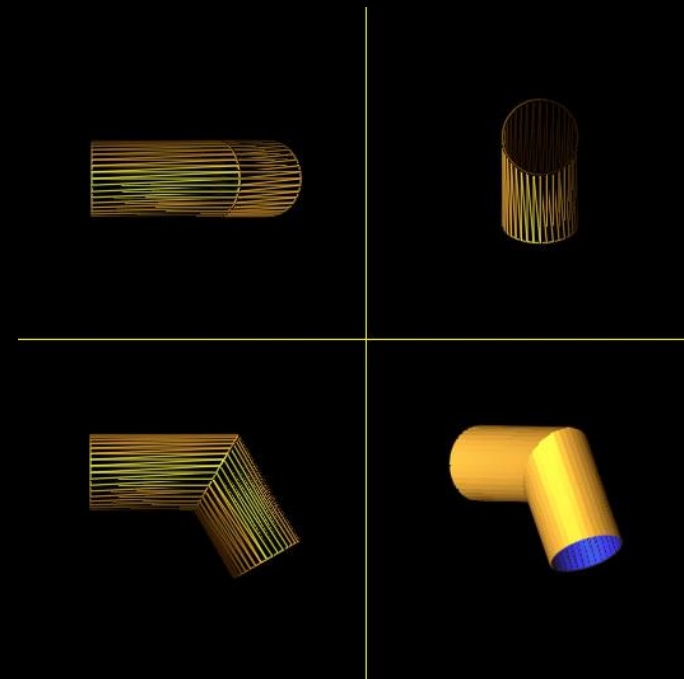
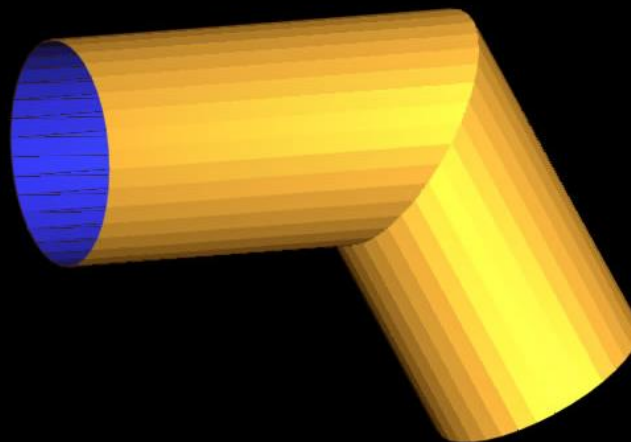
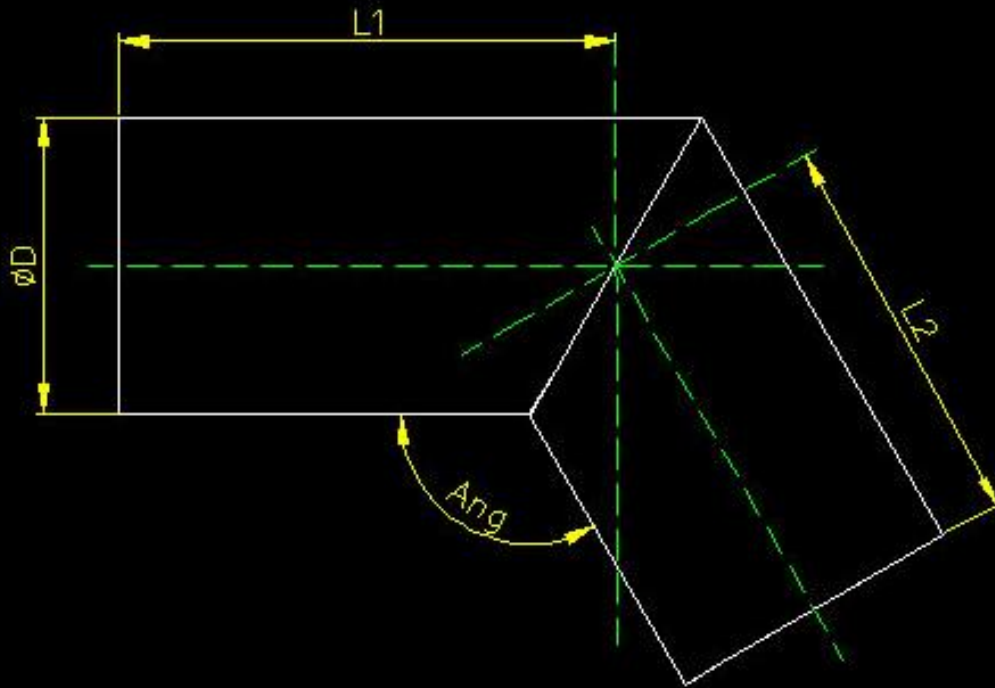
023 - Curva Direta 90° ★

D	600
L1	500
L2	800
Ndiv	16 ...
Qtd	1
Calcular 3D	Sim ▼
e	12,7 (Aço) ...



024 - Curva Direta ☆

D	500
L1	850
L2	500
Ang	120
Ndiv	16 ...
Qtd	1
Calcular 3D	Sim ▼
e	12,7 (Aço) ...



025 - Desvio Circular Paralelo

D

500

L

2000

H

1500

X

300

Ndiv

16

...

Qty

1

Calcular 3D

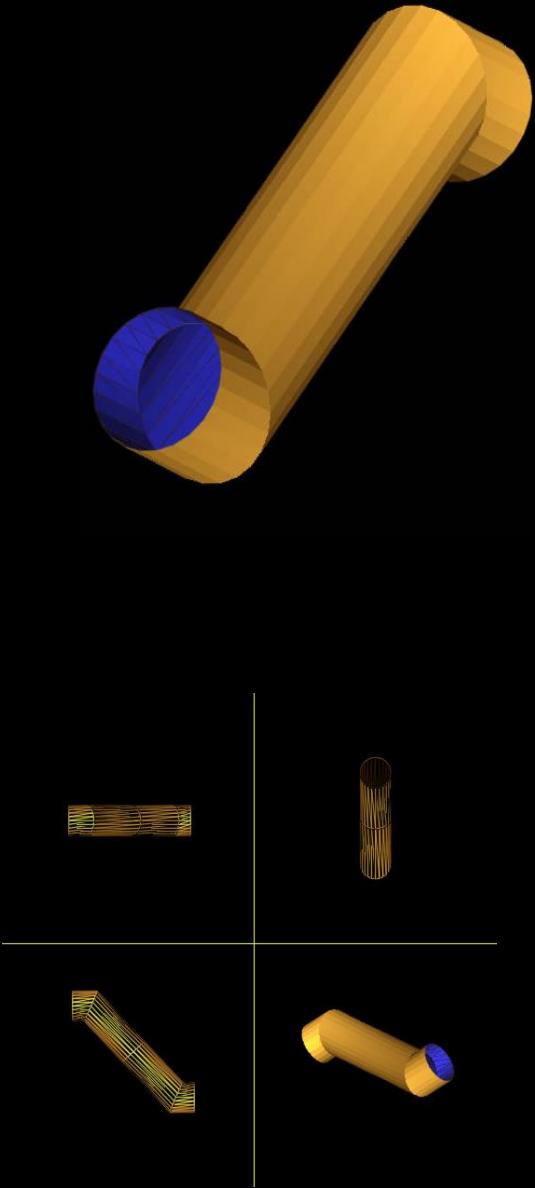
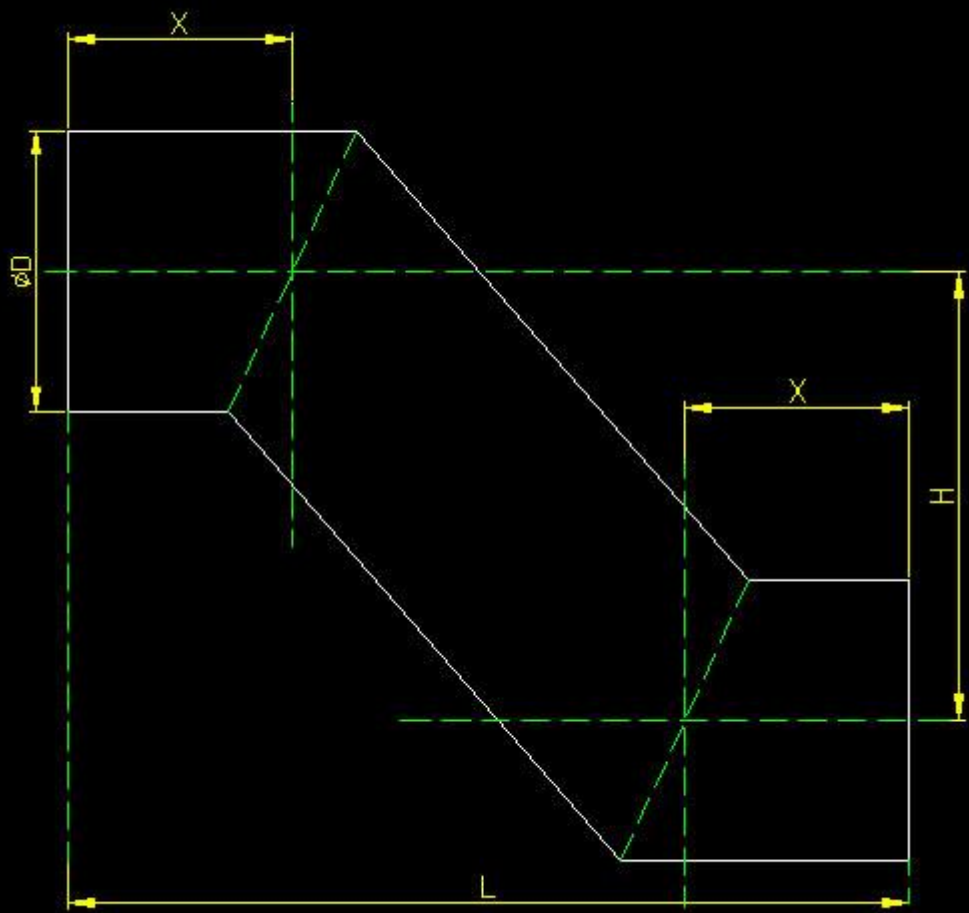
Sim

▼

e

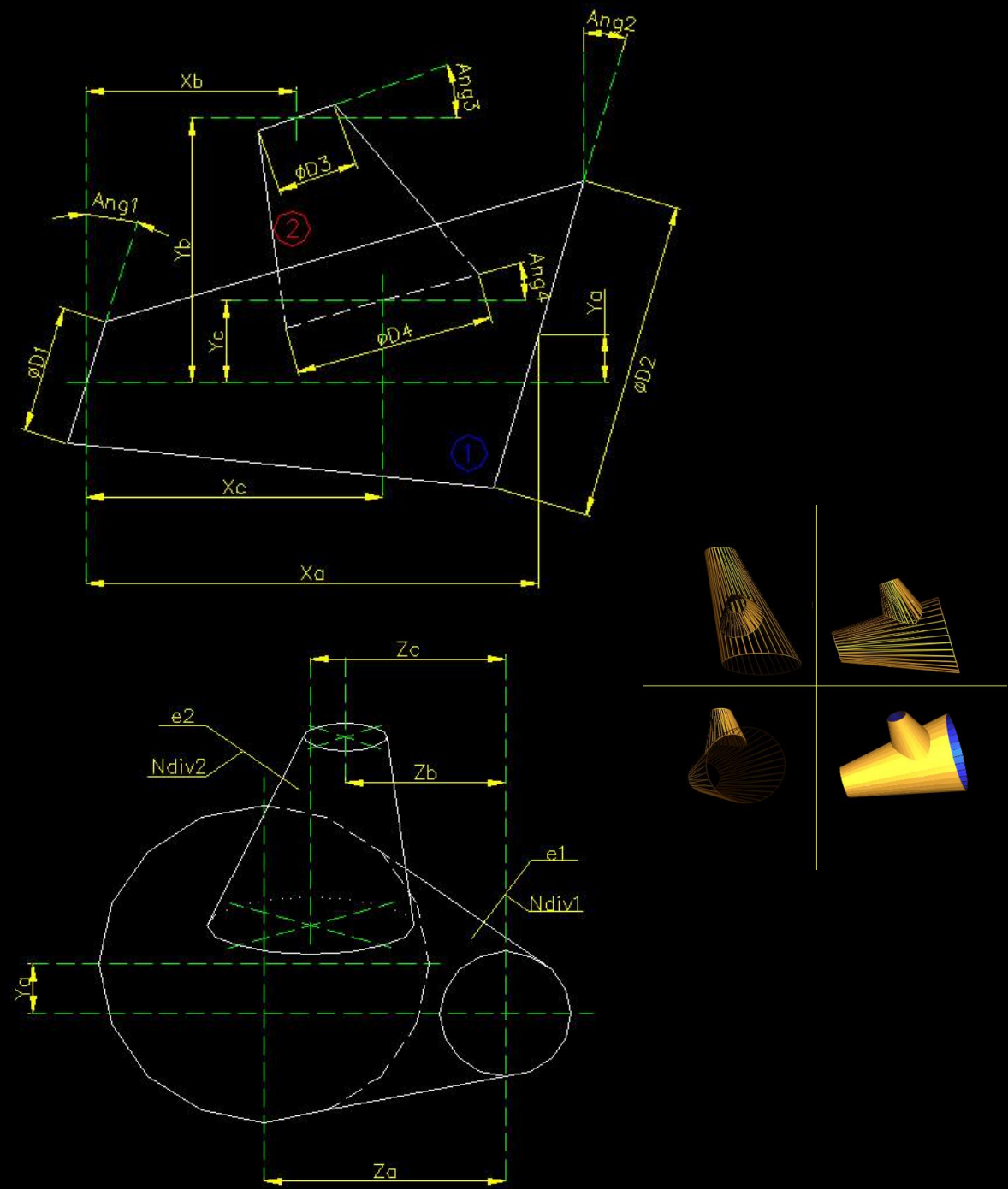
12,7 (Aço)

...



026 - Intersecção Cone/Cone Genérica

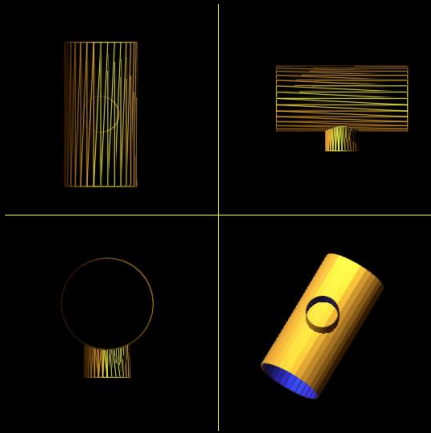
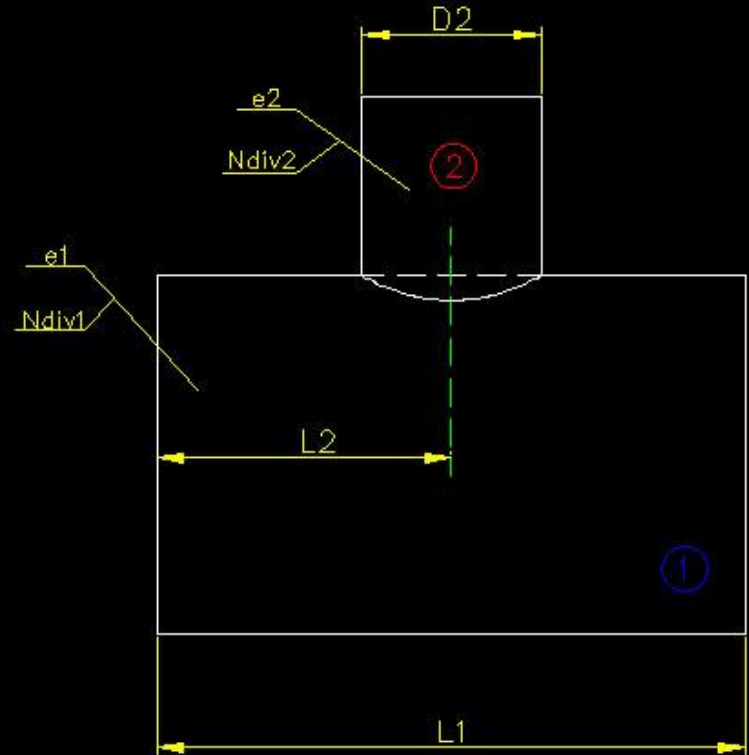
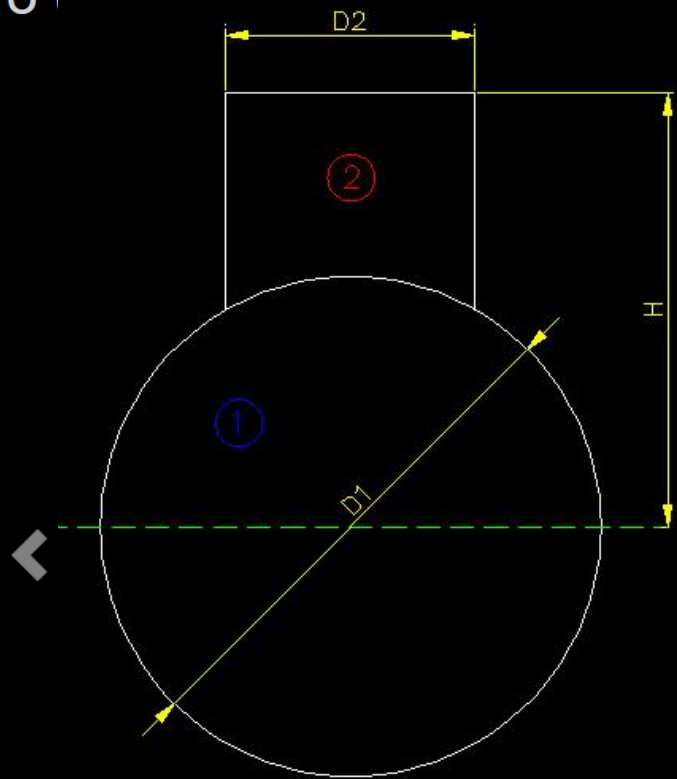
D1	800	Ang4	0
D2	1500	Ndiv1	32 ...
D3	700	Ndiv2	32 ...
D4	1000	Qtd	1
Xa	2400	Calcular	1+2 ▼
Xb	1100	Calcular 3D	Sim ▼
Xc	1100	Método	M+M ...
Ya	100	e1	5 (Aço) ...
Yb	1100	e2	5 (Aço) ...
Yc	0	PLN(%)	50
Za	0		
Zb	0		
Zc	0		
Ang1	30		
Ang2	-30		
Ang3	45		



027 - Intersecção Cilindro / Cilindro

Variantes de cotação: Anterior | Próxima

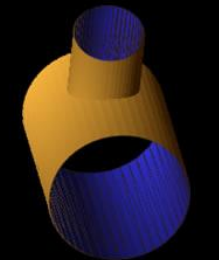
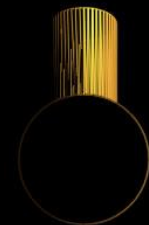
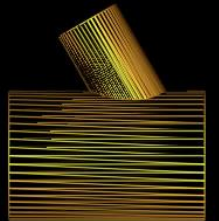
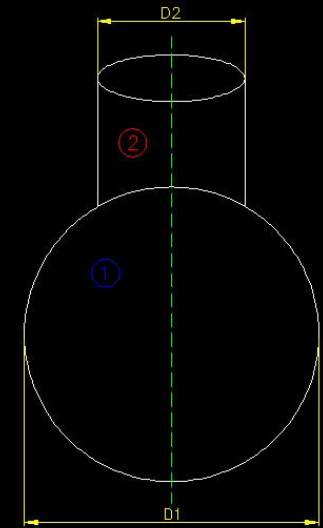
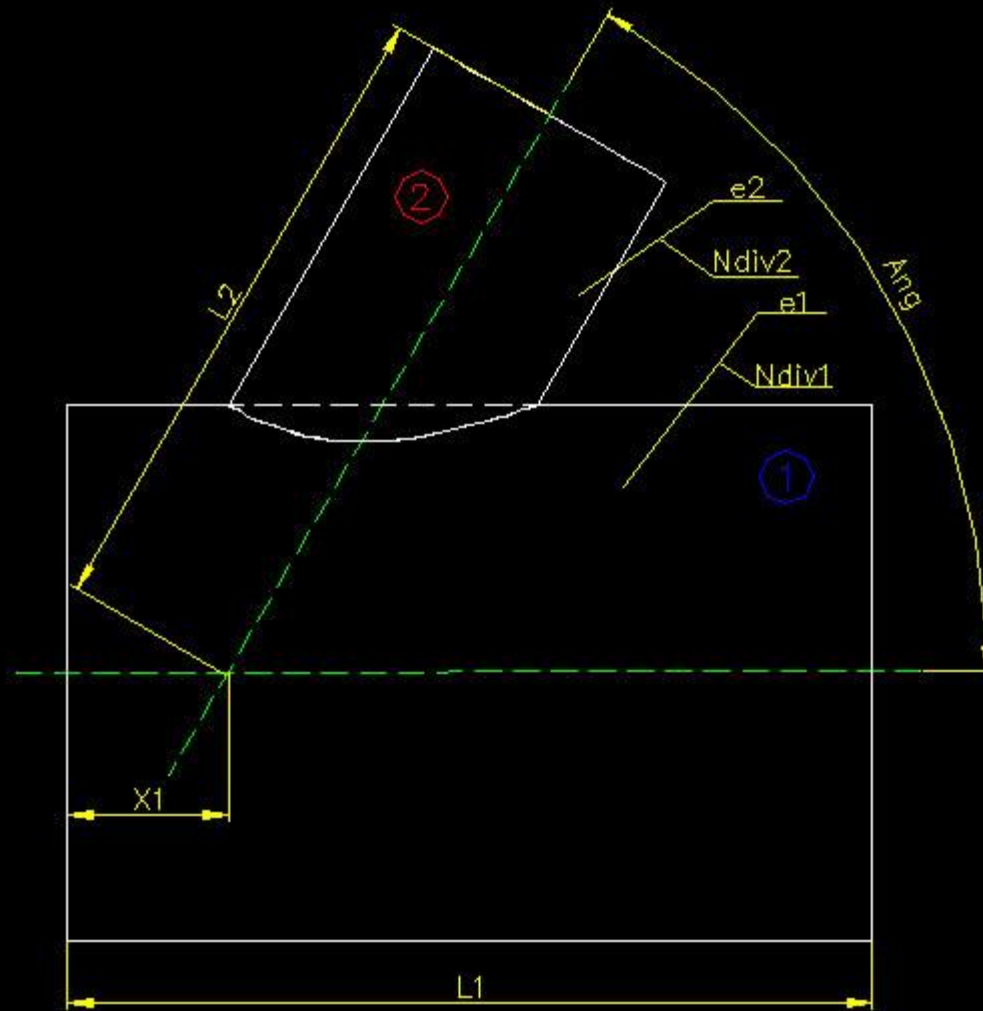
D1	1000
D2	500
H	800
L1	2000
L2	1000
Ndiv1	32 ...
Ndiv2	16 ...
Qty	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



031 - Intersecção Tubos prontos inclinada

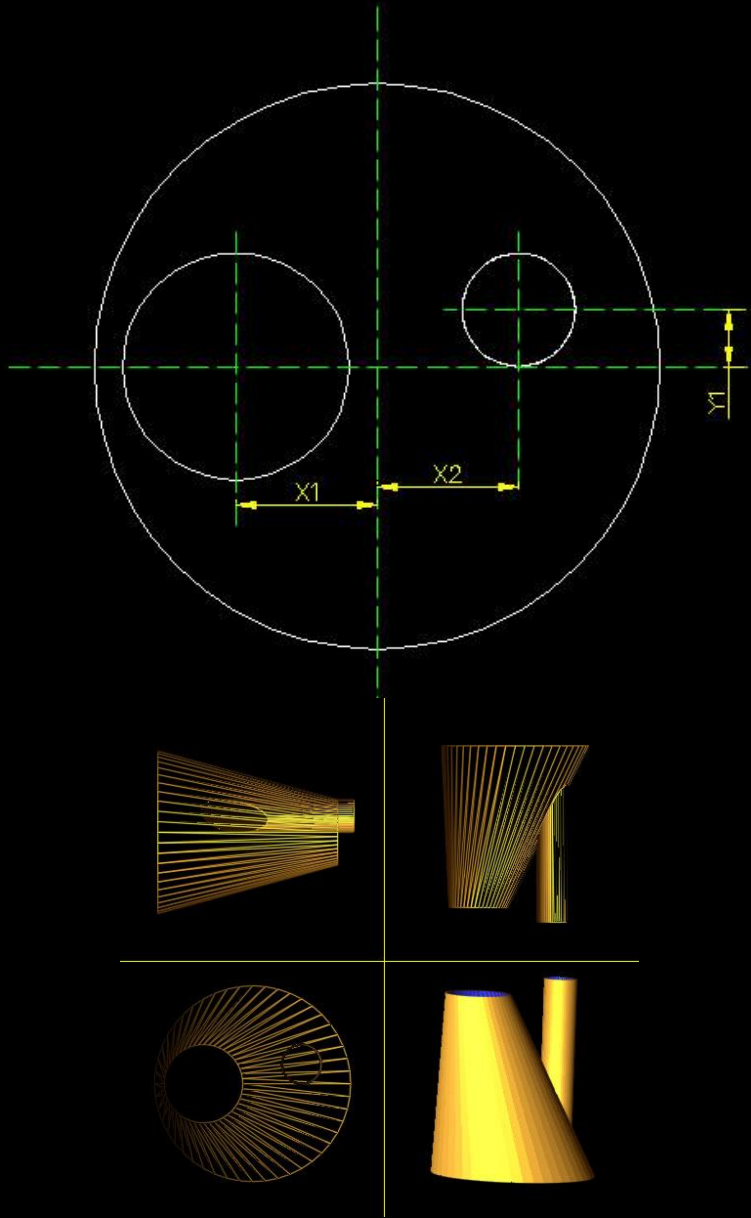
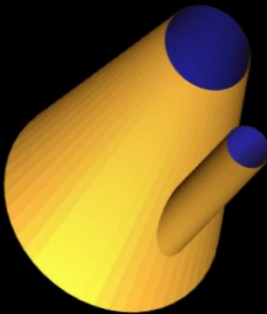
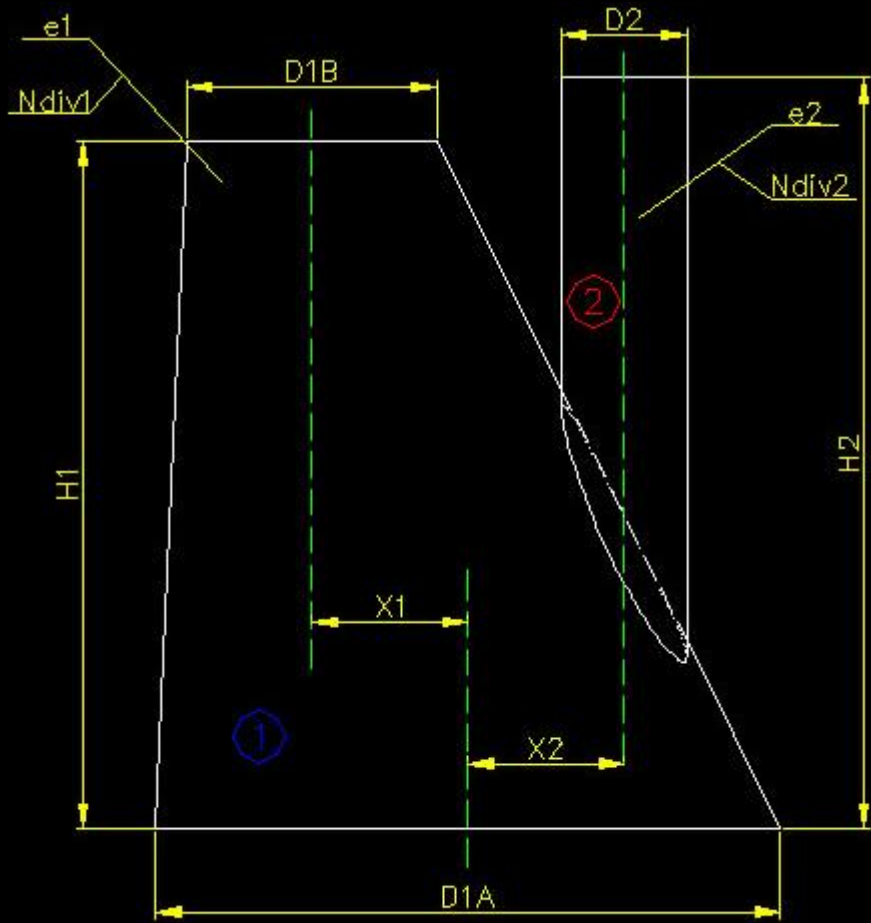
Variantes de cotação: [Anterior](#) | [Próxima](#)

D1	1000
D2	500
L1	1200
L2	1200
X1	300
Ang	60
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



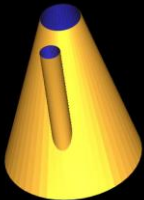
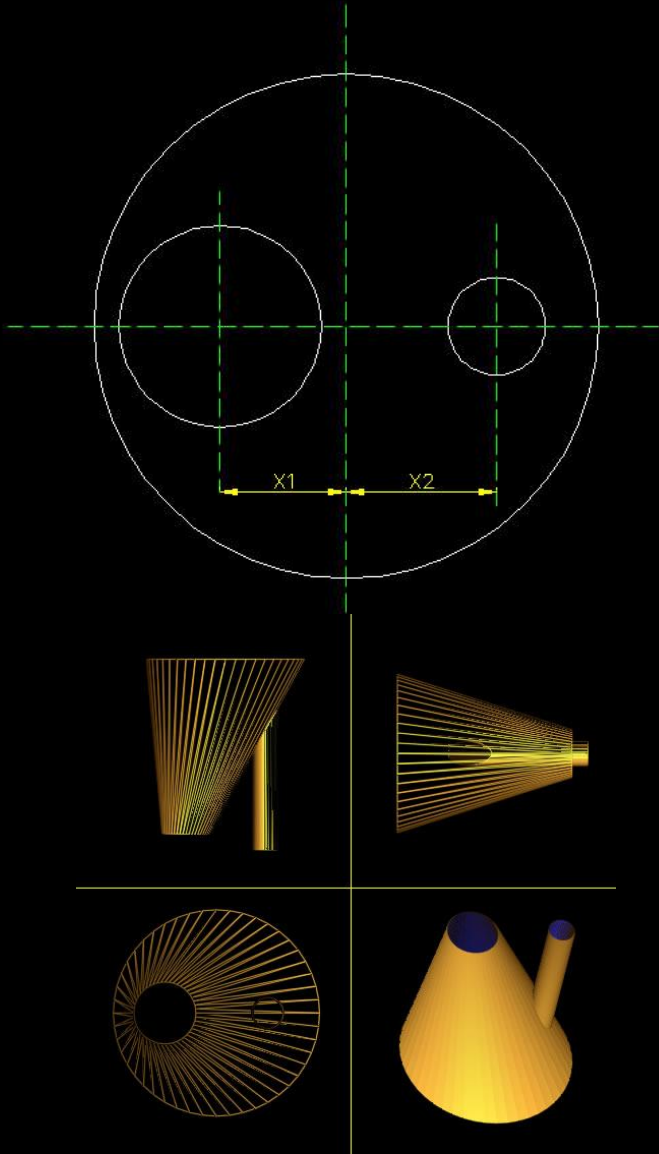
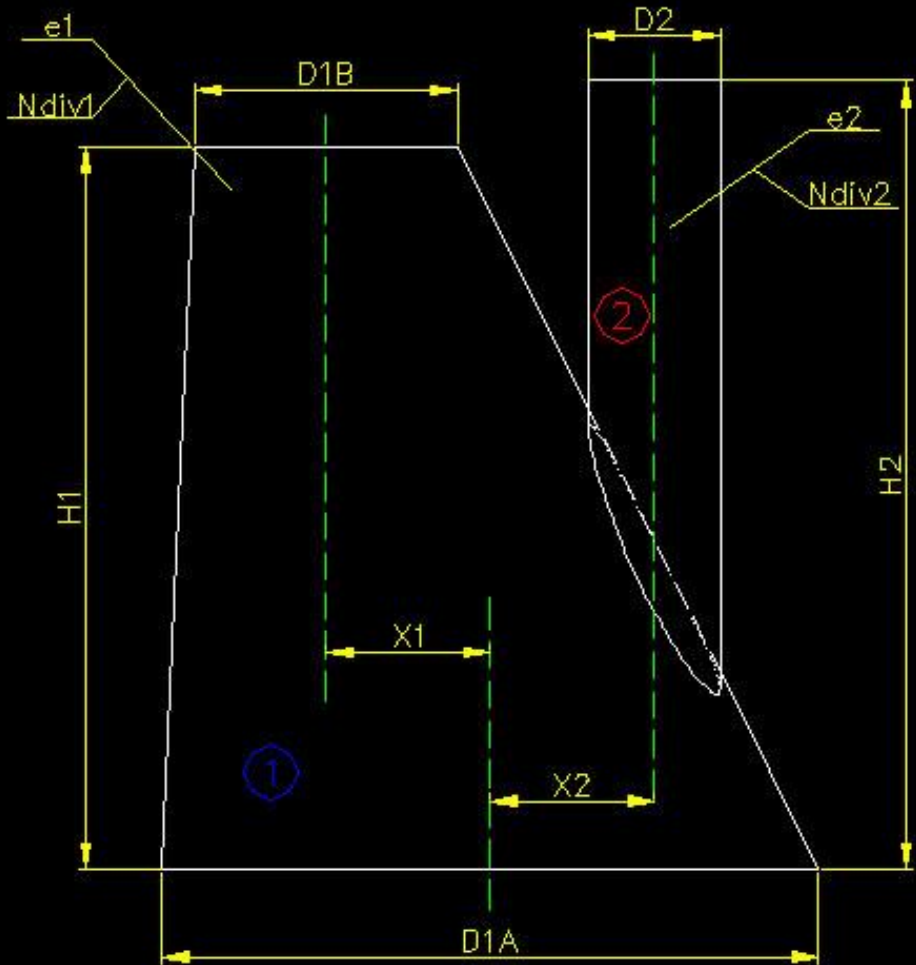
032 - Intersecção Cilindro/Cone 90°

D1A	1000
D1B	400
D2	250
H1	1100
H2	1200
X1	280
X2	280
Y1	30
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	10 (Aço) ...



033 - Intersecção Cilindro/Cone 90° Alinhada

D1A	1000	
D1B	300	
D2	200	
H1	1100	
H2	1200	
X1	250	
X2	250	
Ndiv1	32	...
Ndiv2	16	...
Qtd	1	
Calcular	1+2	
Calcular 3D	Sim	
Método	M+M	...
e1	10 (Aço)	...
e2	10 (Aço)	...



036 - Intersecção Cil/Cone (1)

Variantes de cotação: Anterior | Próxima

D1A

600

D1B

1000

D2

400

L1

1500

L2

600

H

700

Ang

60

Ndiv1

32

...

Ndiv2

16

...

Qtd

1

Calcular

1+2

▼

Calcular 3D

Sim

▼

Método

M+M

...

e1

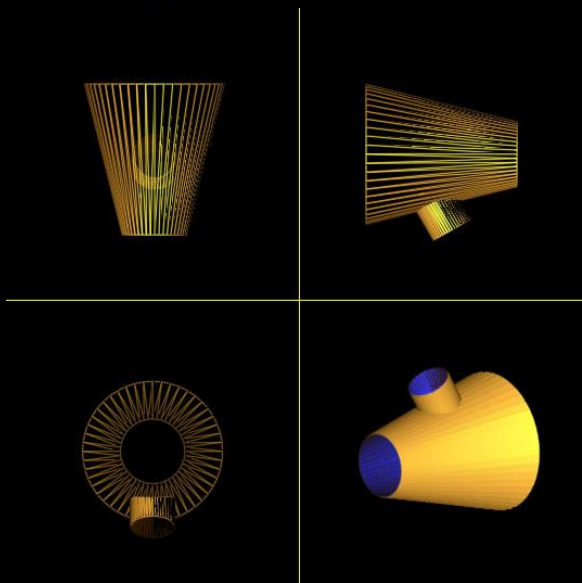
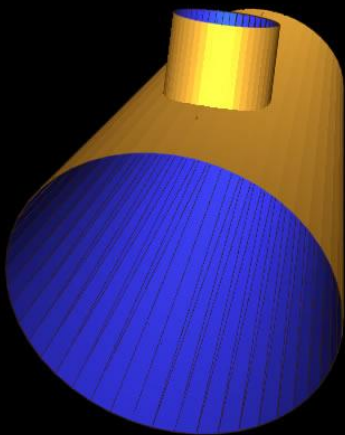
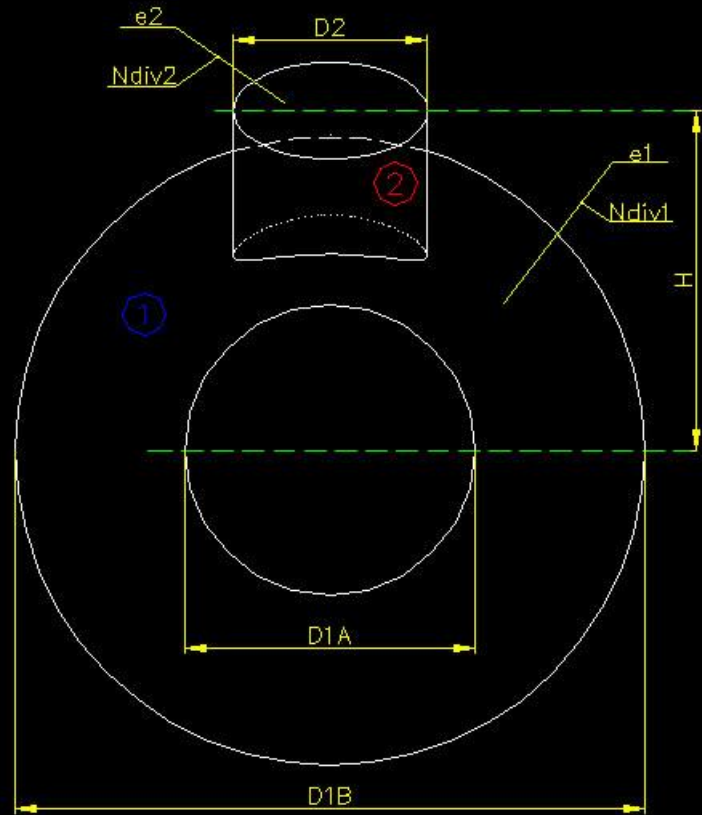
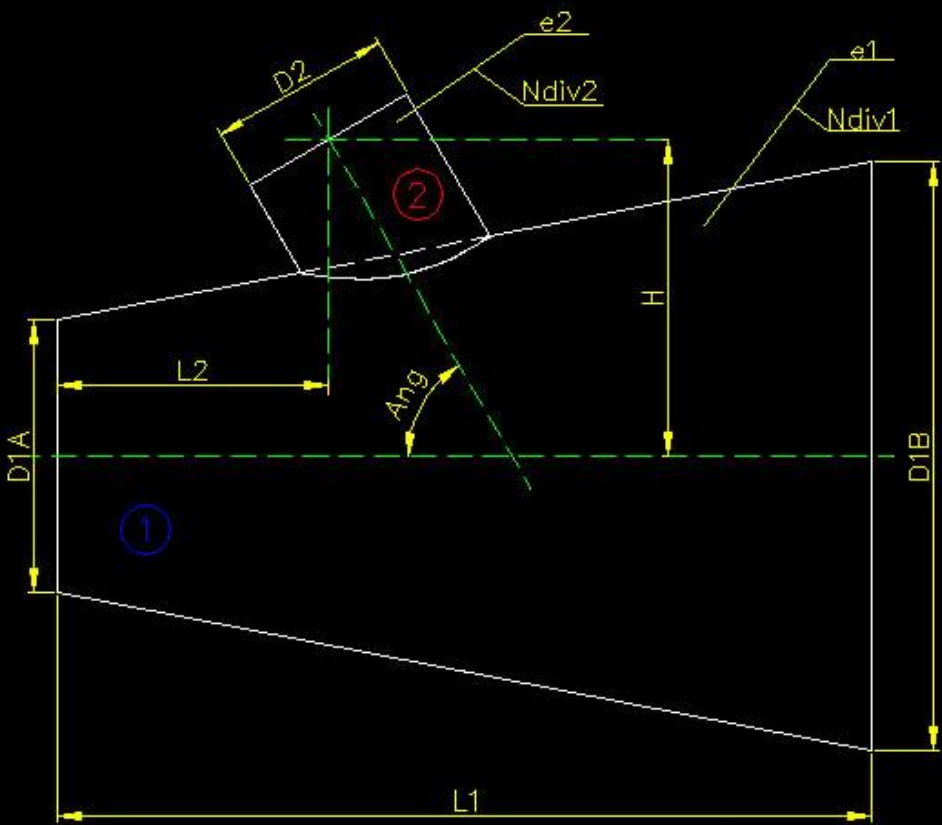
10 (Aço)

...

e2

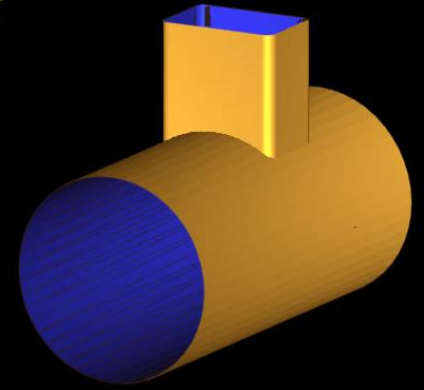
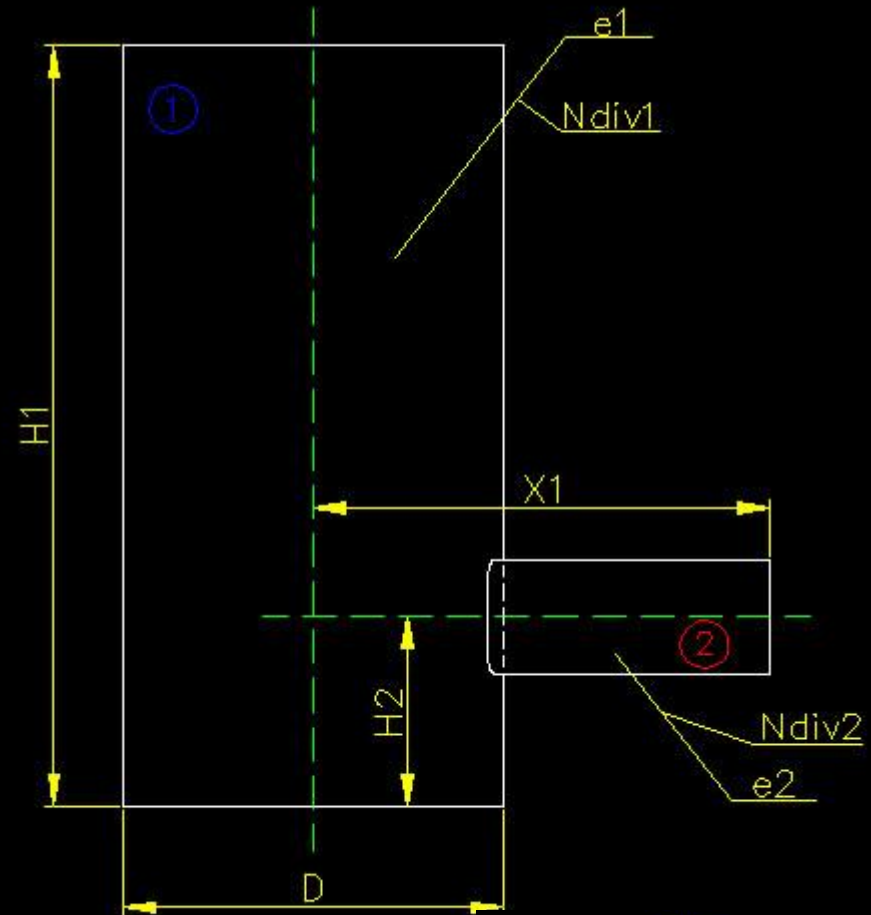
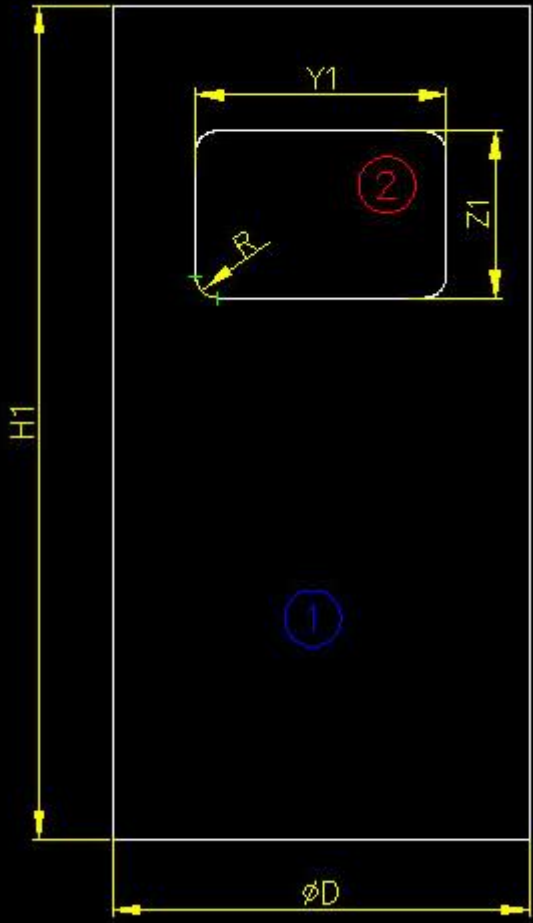
8 (Aço)

...



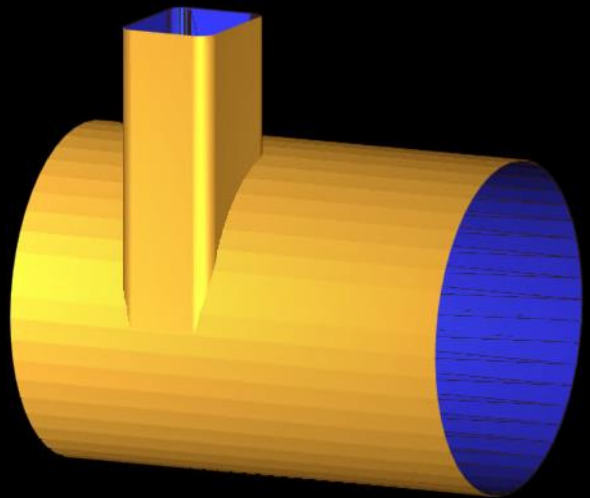
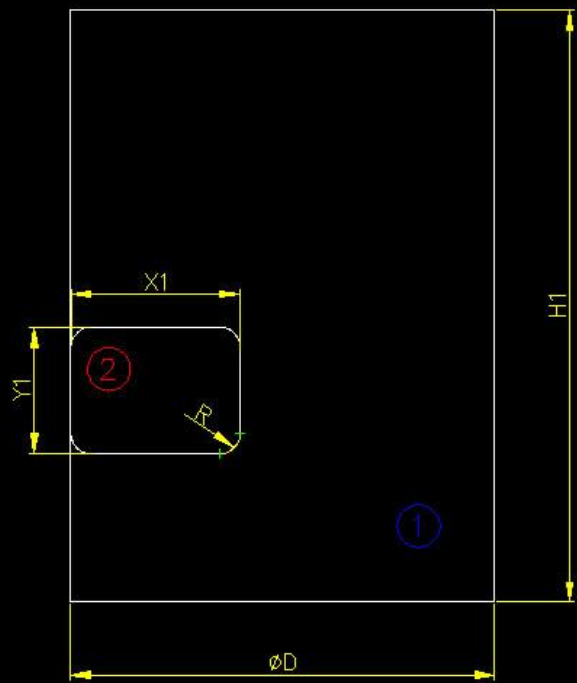
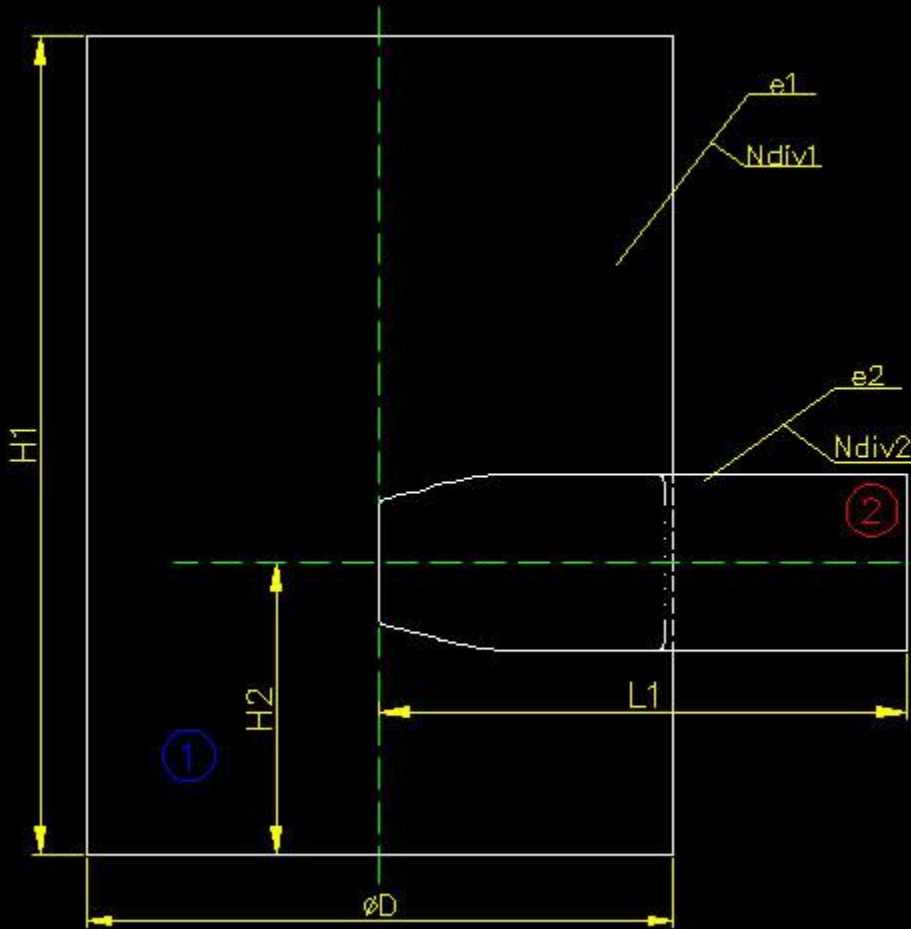
038 - Intersecção Ret/Cil 90°

D	1000
H1	2000
H2	500
X1	1000
Y1	500
Z1	400
R	50
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



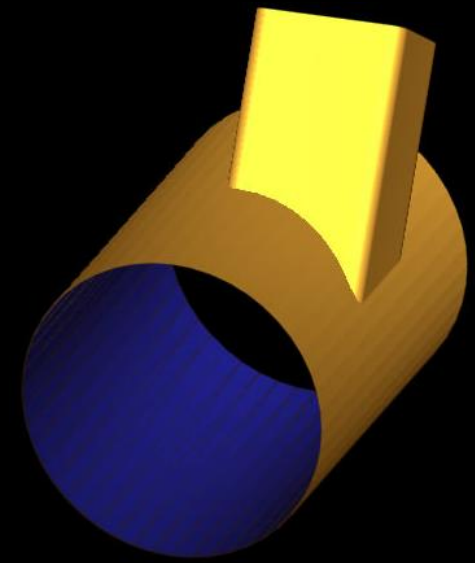
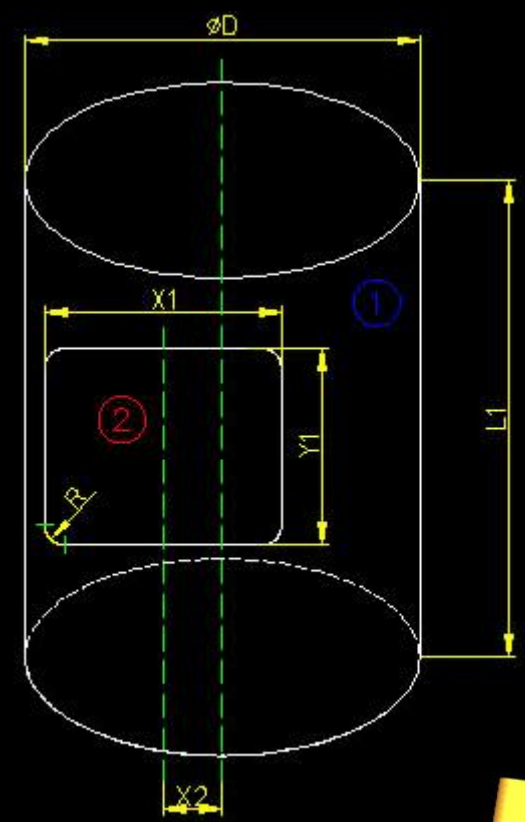
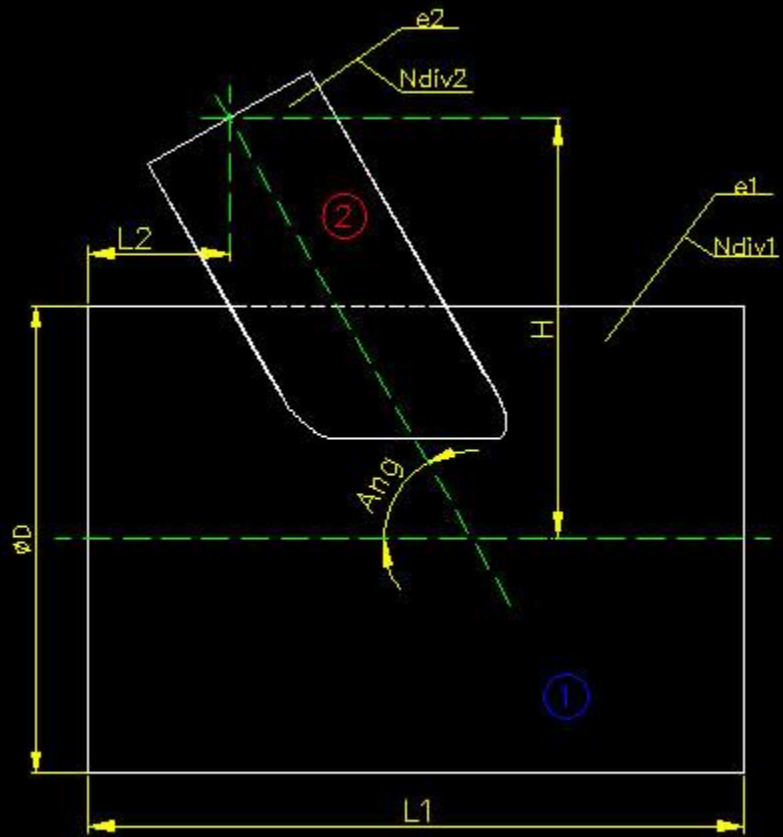
039 - Intersecção Ret/Cil 90° Alinhada

D	1000	
H1	2000	
H2	500	
X1	200	
Y1	200	
L1	1300	
R	50	
Ndiv1	32	...
Ndiv2	16	...
Qtd	1	
Calcular	1+2 ▼	
Calcular 3D	Sim ▼	
Método	M+M	...
e1	10 (Aço)	...
e2	10 (Aço)	...



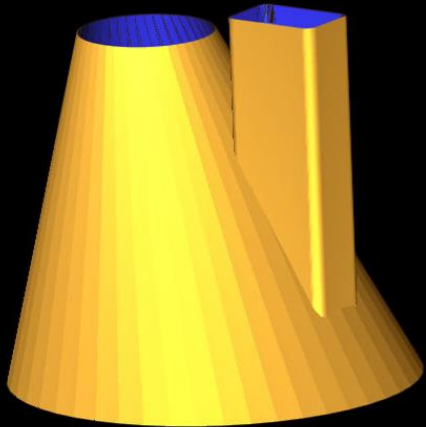
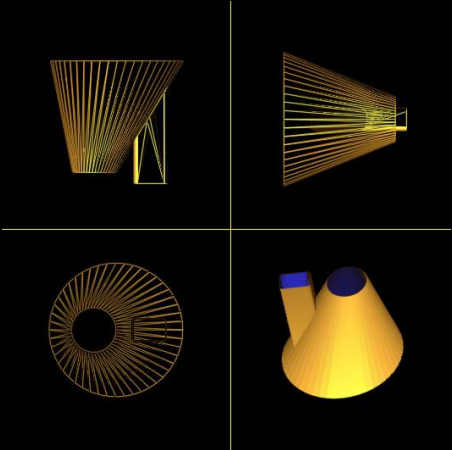
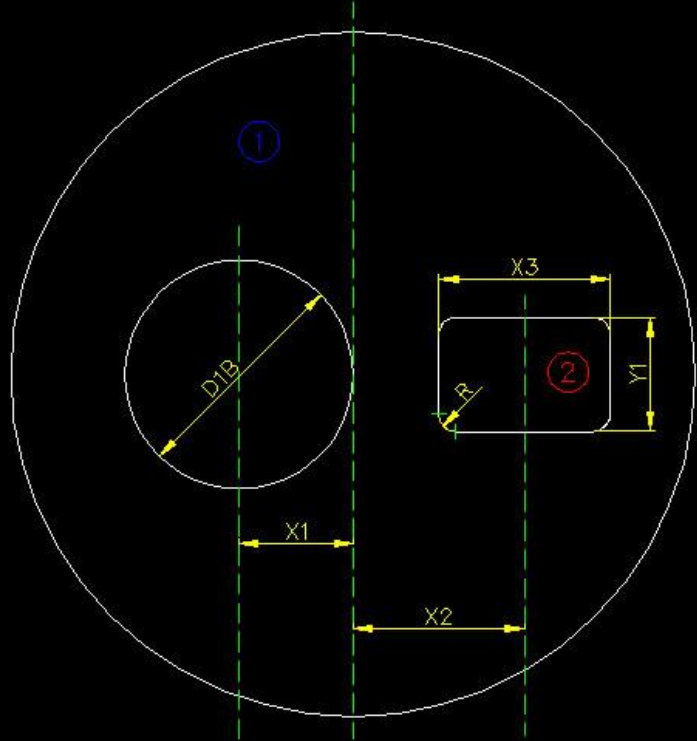
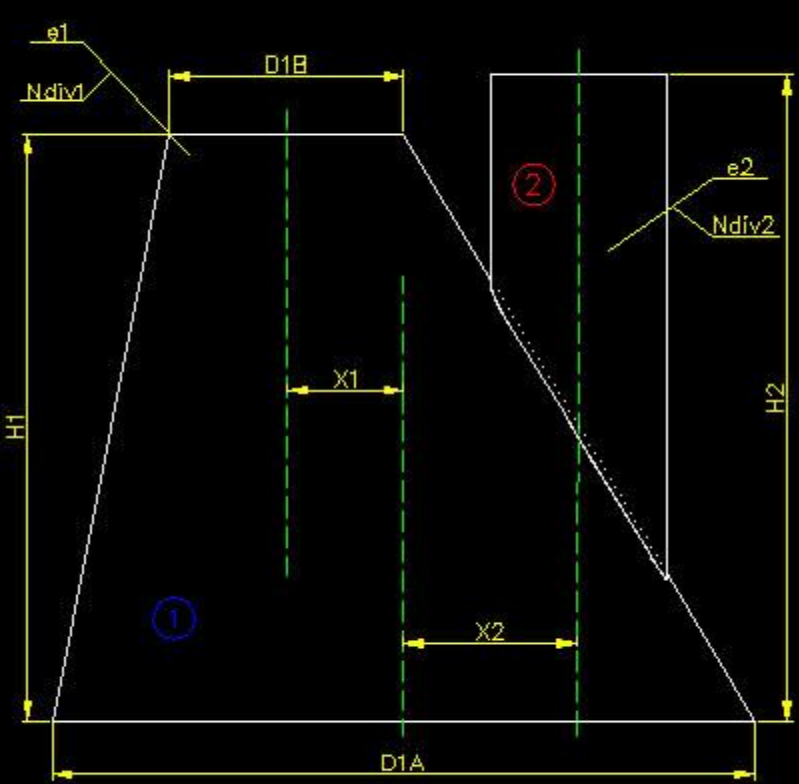
042 - Intersecção Ret/Cil Ângulo Excêntrica

D	1000
L1	1500
L2	300
X1	500
Y1	400
X2	100
H	1000
R	50
Ang	60
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



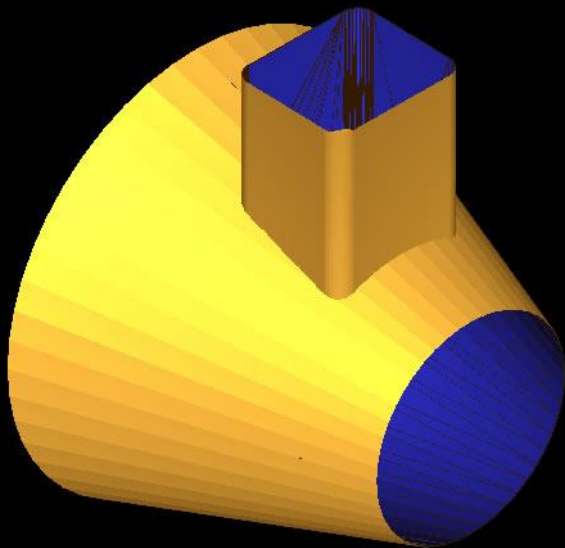
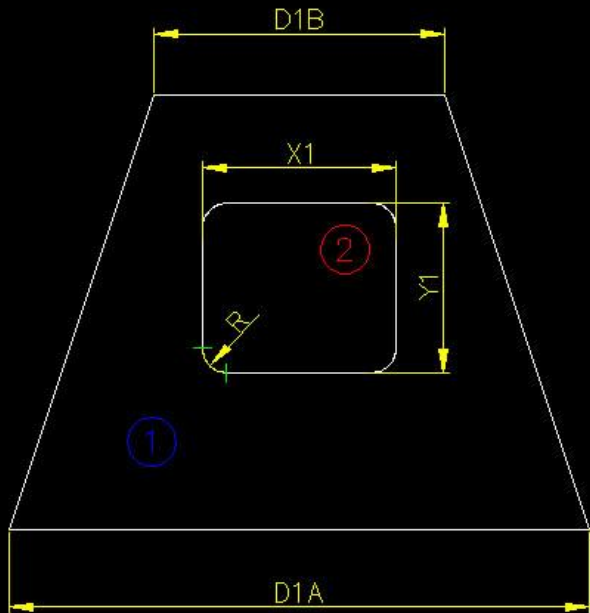
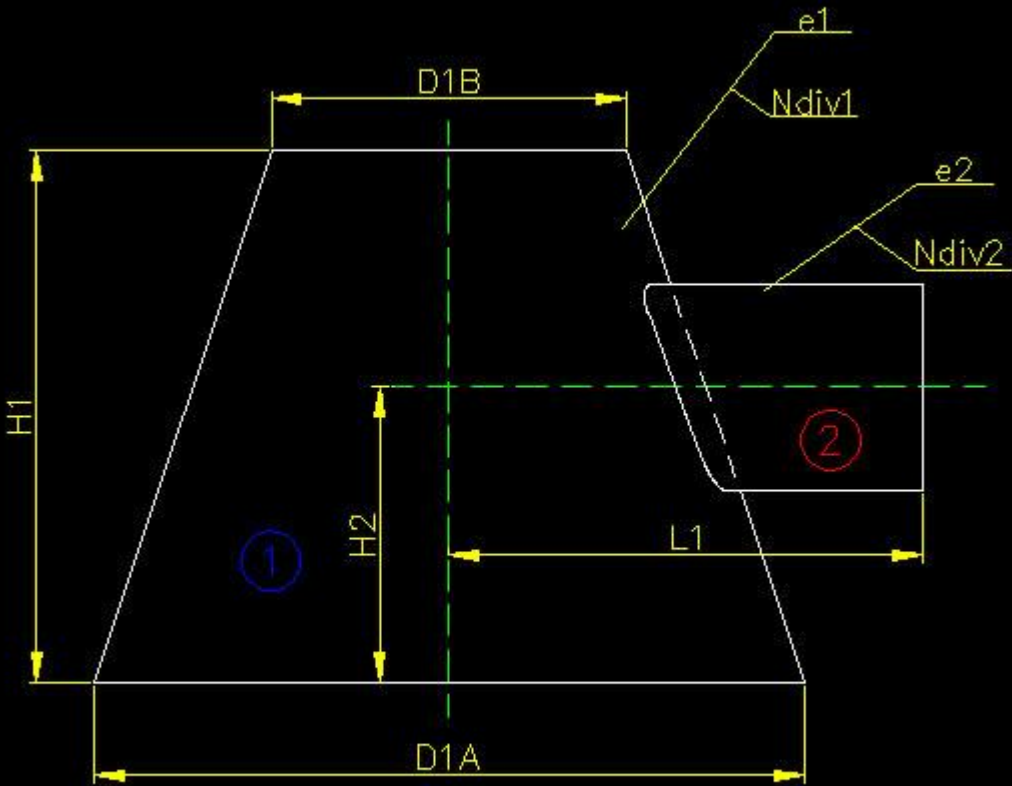
043 - Intersecção Ret/Cone 90°

D1A	1200	
D1B	400	
X1	200	
X2	300	
X3	300	
H1	1000	
H2	1100	
Y1	200	
R	30	
Ndiv1	32	<input "="" type="text" value="..."/>
Ndiv2	16	<input "="" type="text" value="..."/>
Qtd	1	
Calcular	1+2 ▼	
Calcular 3D	Sim ▼	
Método	M+M	<input "="" type="text" value="..."/>
e1	10 (Aço)	<input "="" type="text" value="..."/>
e2	10 (Aço)	<input "="" type="text" value="..."/>



045 - Intersecção Ret/Cone ☆

D1A	1200
D1B	600
H1	900
H2	500
L1	800
X1	300
Y1	250
R	50
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



046 - Intersecção Ret/Cone Excêntrica

D1A

1200

D1B

750

H1

1200

H2

600

X1

350

X2

550

Y1

100

Y2

150

Y3

400

L1

1000

R

50

Ndiv1

32

...

Ndiv2

16

...

Qty

1

Calcular

1+2

▼

Calcular 3D

Sim

▼

Método

M+M

...

e1

10 (Aço)

...

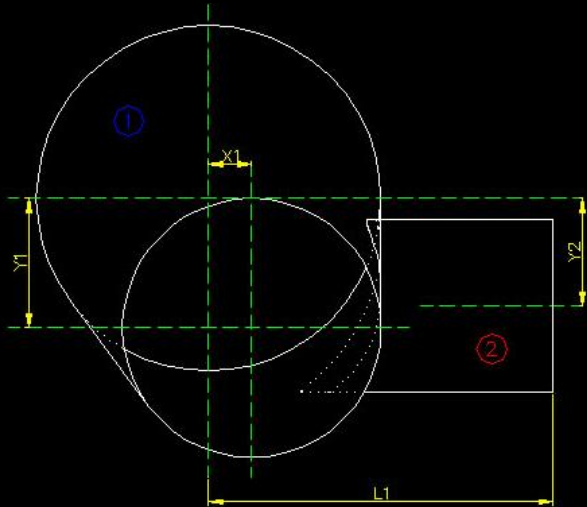
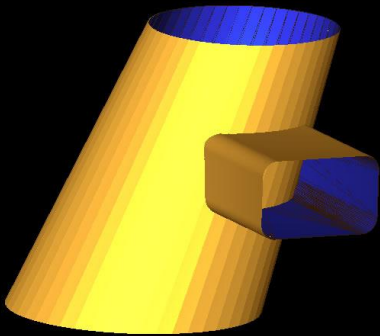
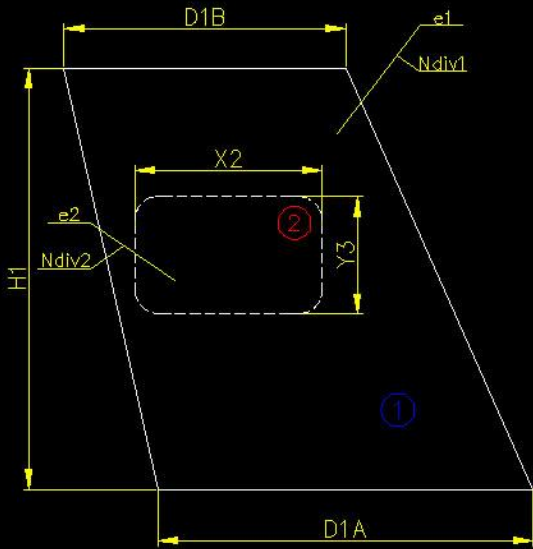
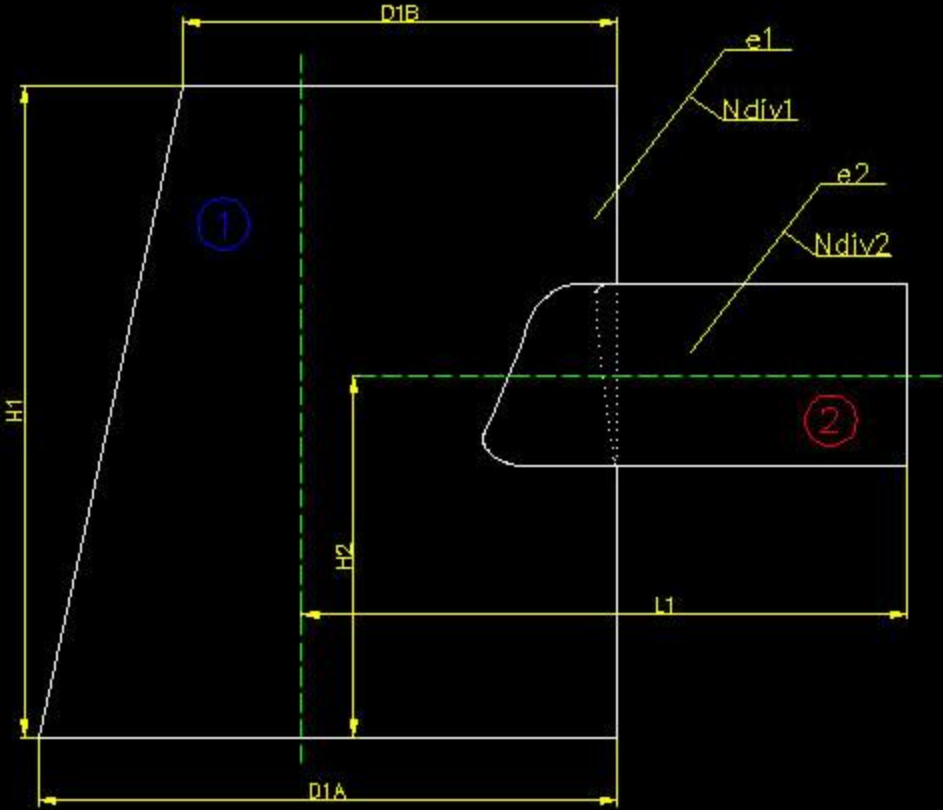
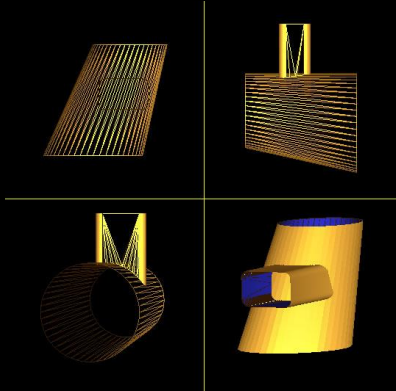
e2

8 (Aço)

...

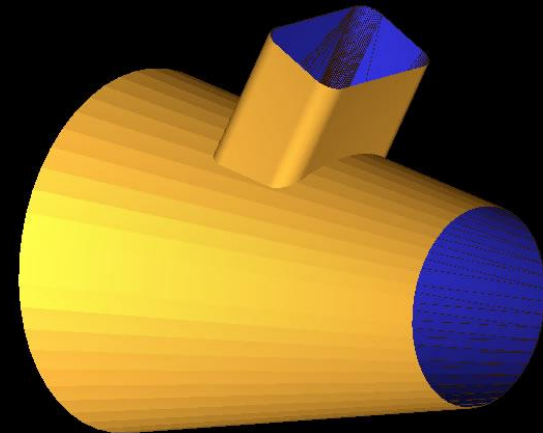
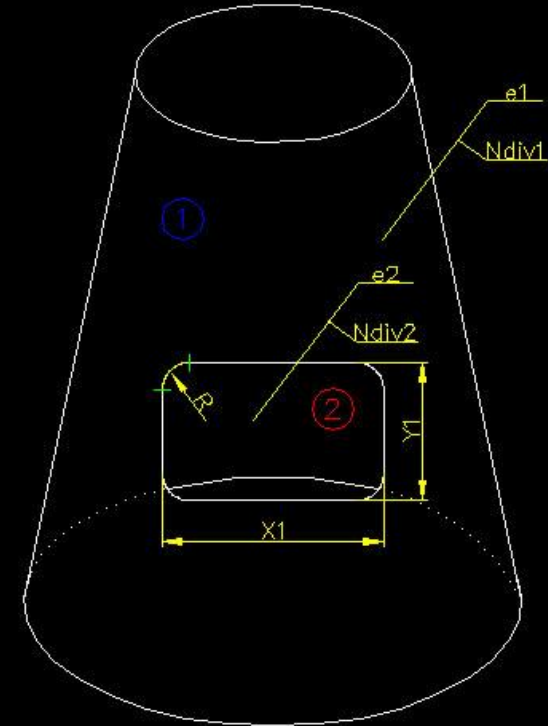
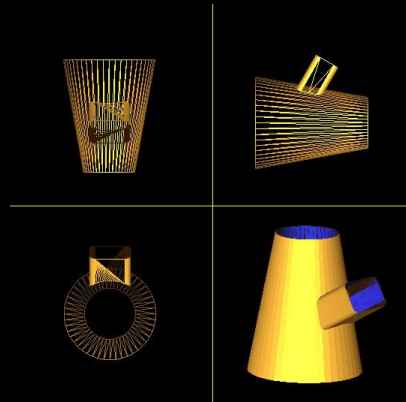
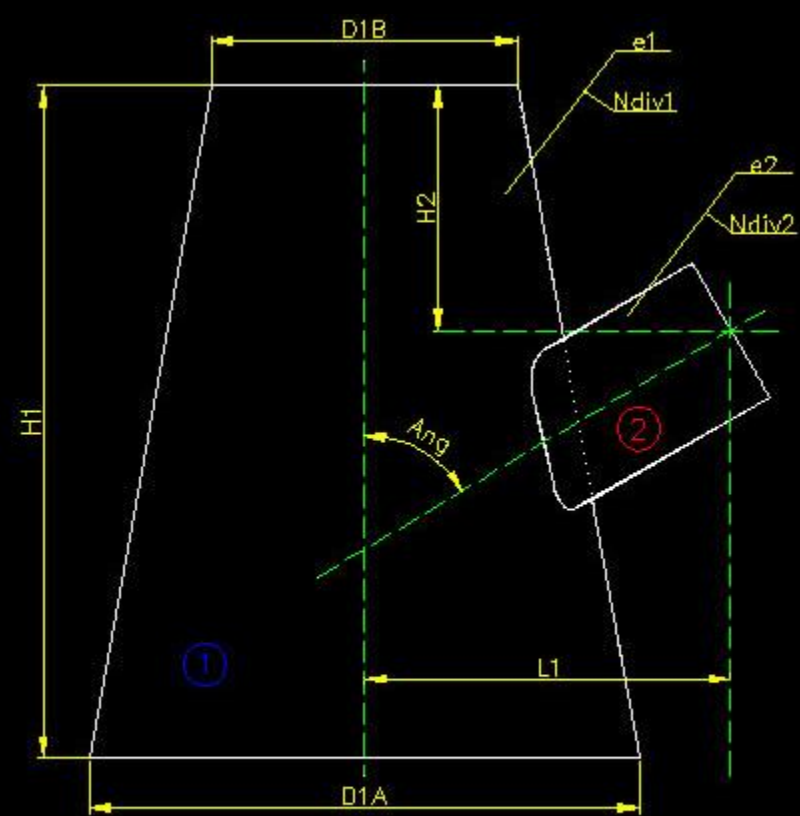
PLN(%)

50



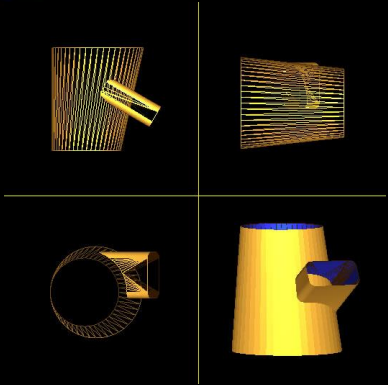
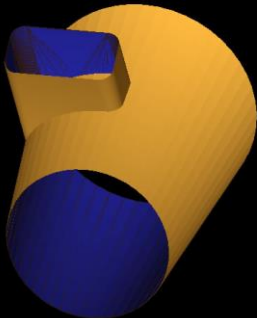
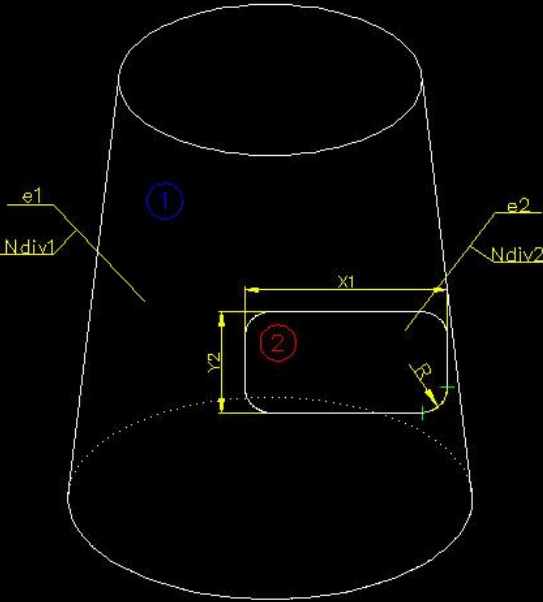
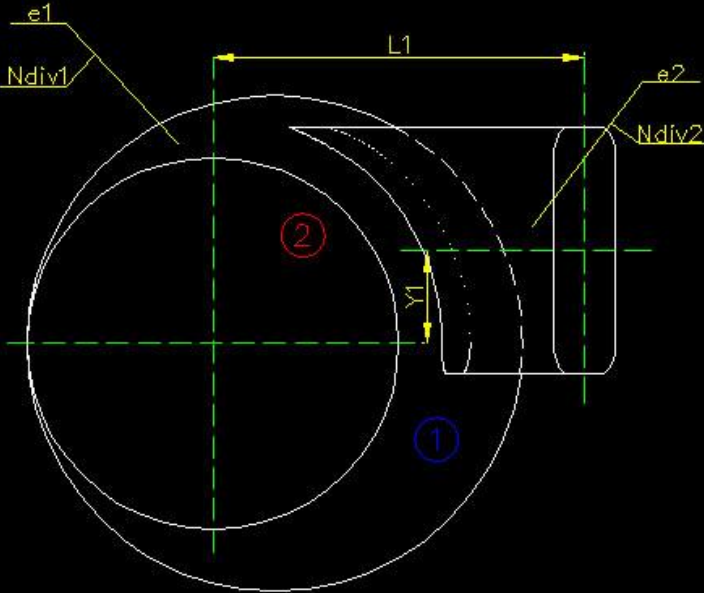
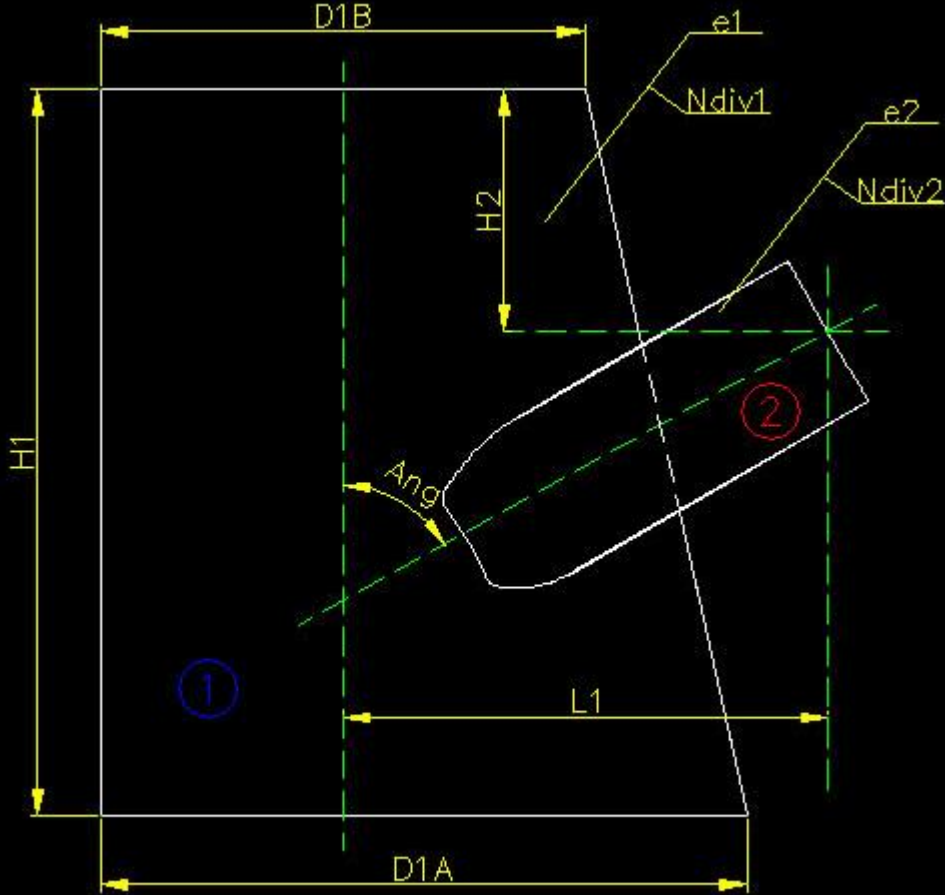
047 - Intersecção Ret/Cone Inclinado

D1A	1200
D1B	600
H1	1100
H2	20
Ang	60
X1	400
Y1	300
L1	1000
R	50
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



051 - Int. Ret/Cone Inclinado Apoiada Excêntrica

D1A	1100
D1B	600
H1	900
H2	300
L1	900
Ang	60
Y1	200
Y2	200
X1	400
R	50
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



052 - Bifurcação Cônica (Calça)

D

1000

F

300

H1

600

H2

700

Ang1

30

Ang2

40

D1

250

D2

350

Ex1

300

Ex2

350

Ey1

100

Ey2

150

Ndiv

32

...

Qtd

1

Calcular 3D

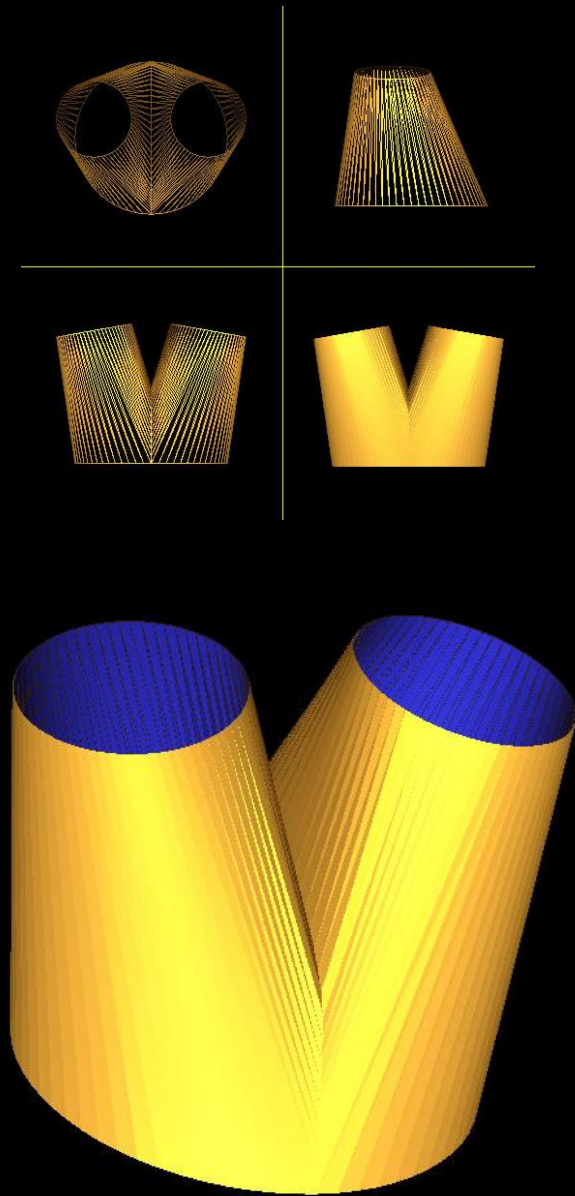
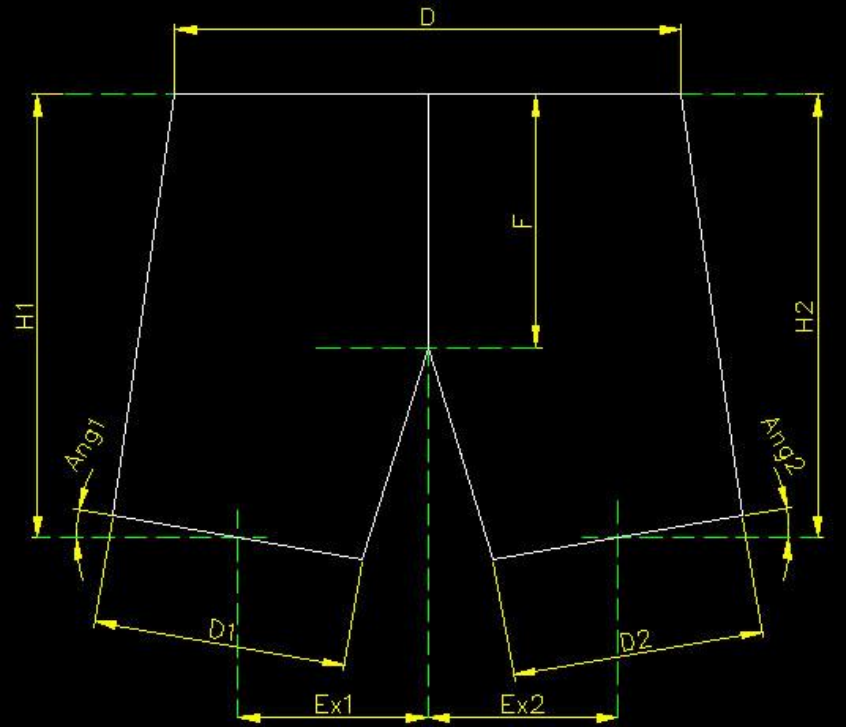
Sim

▼

e1

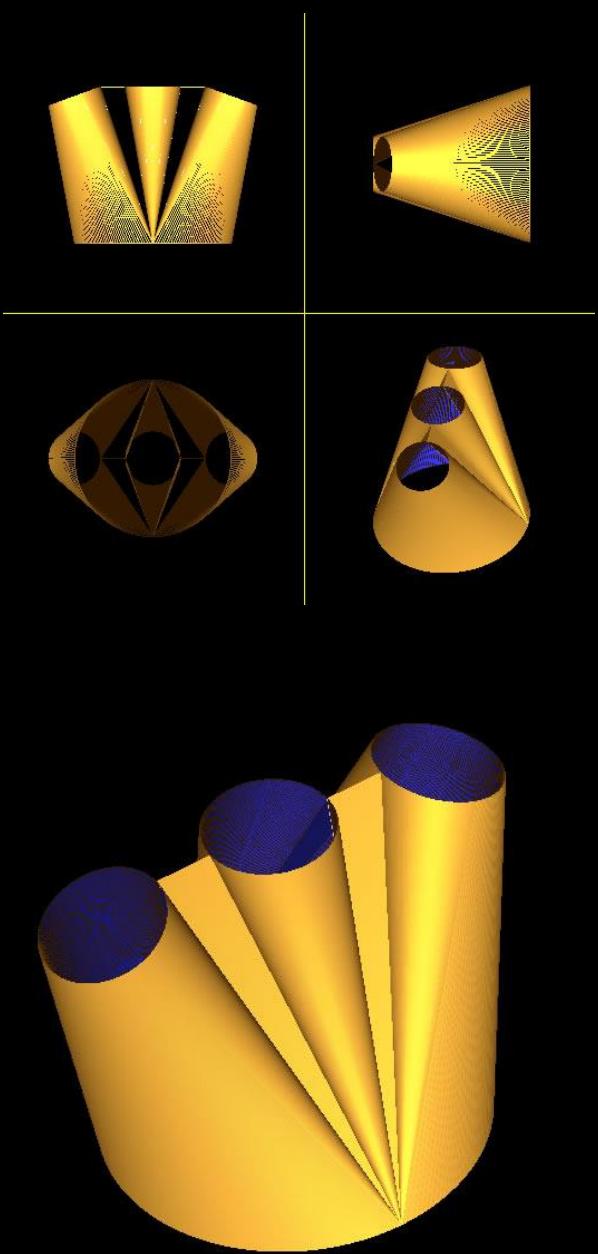
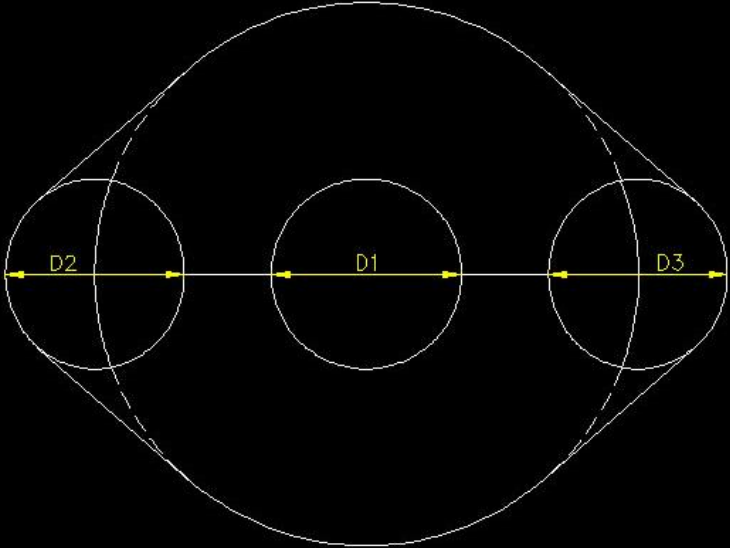
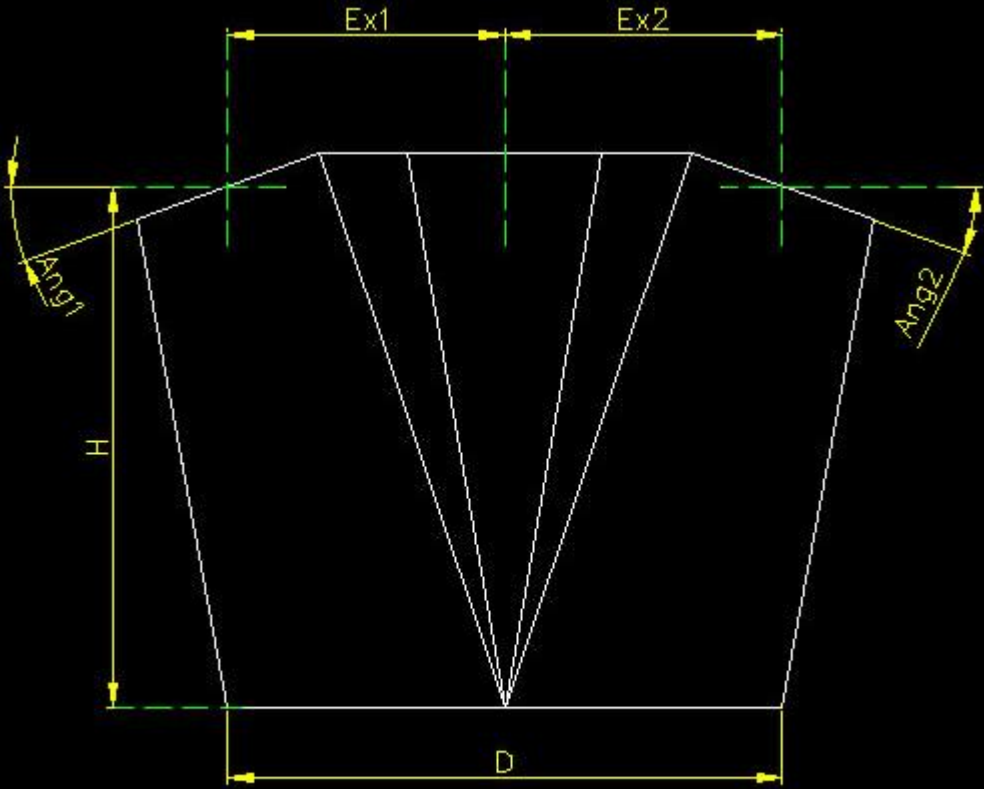
12,7 (Aço)

...



054 - Trifurcação Unida ☆

D	1000
D1	450
D2	350
D3	290
H	900
Ang1	35
Ang2	10
Ex1	500
Ex2	600
Ndiv	32 ...
Qtd	1
Calcular 3D	Sim ▼
e1	12,7 (Aço) ...



055 - Bifurcação Unida ☆

D

1000

D1

400

H1

500

Ex1

400

Ang1

30

D2

350

H2

500

Ex2

500

Ang2

15

Ndiv

32

...

Qtd

1

Calcular 3D

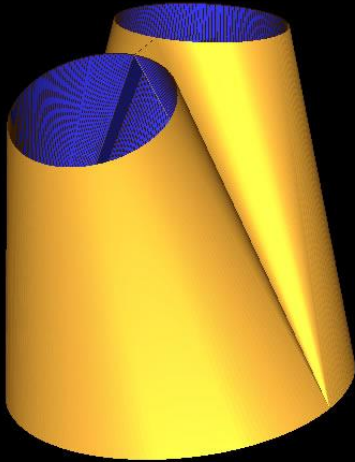
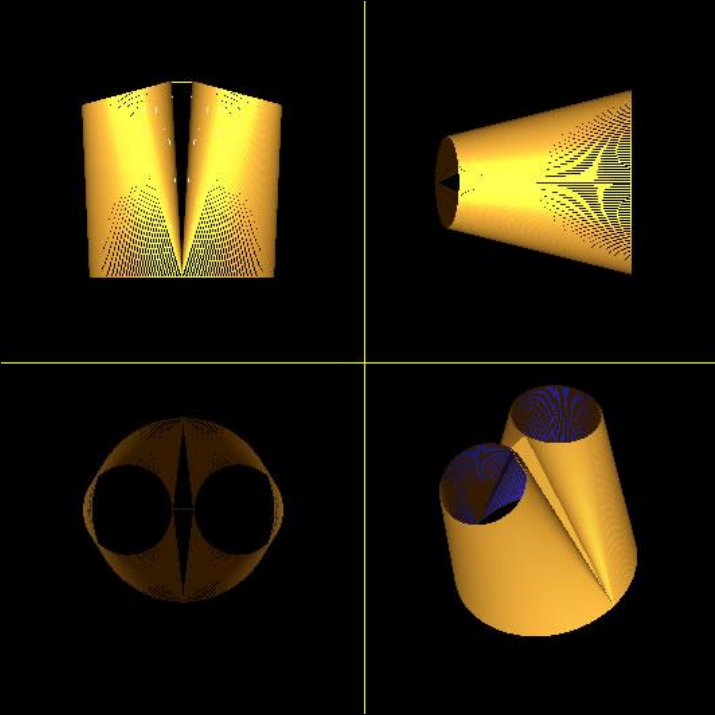
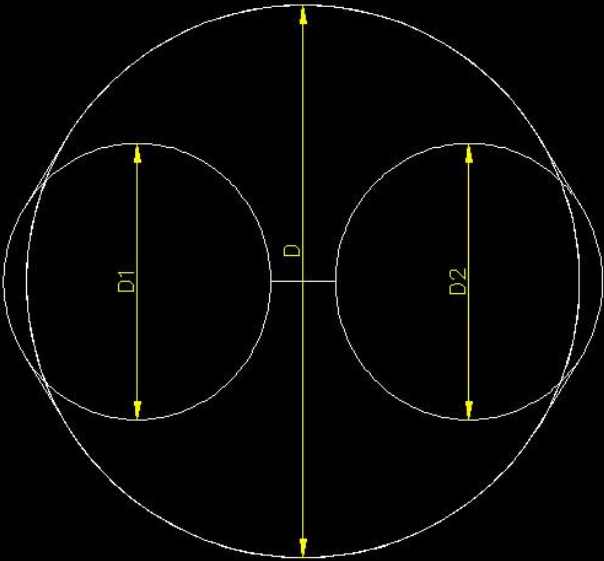
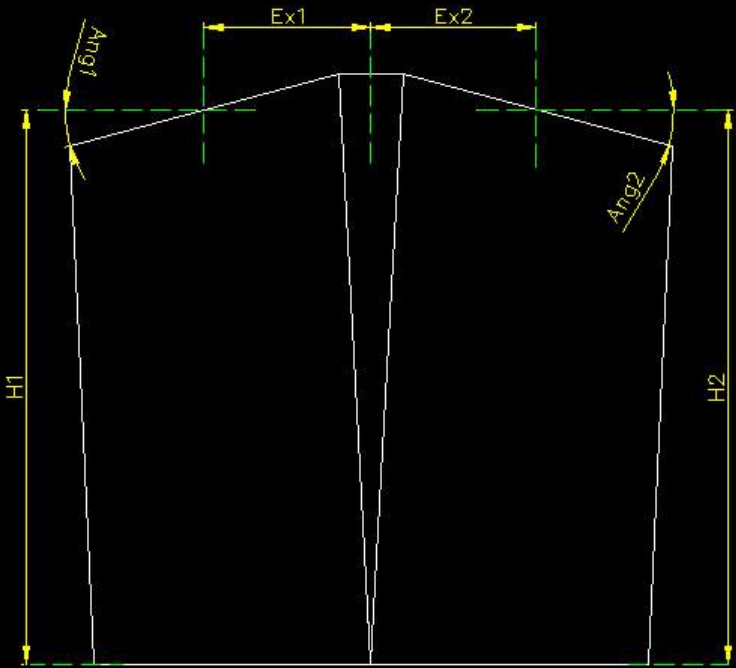
Sim

▼

e1

12,7 (Aço)

...



056 - Bifurcação Unida Saída Paralela

H

900

D

800

Ex

400

Ang

30

D1

490

D2

490

Ndiv

32

...

Qty

1

Calcular 3D

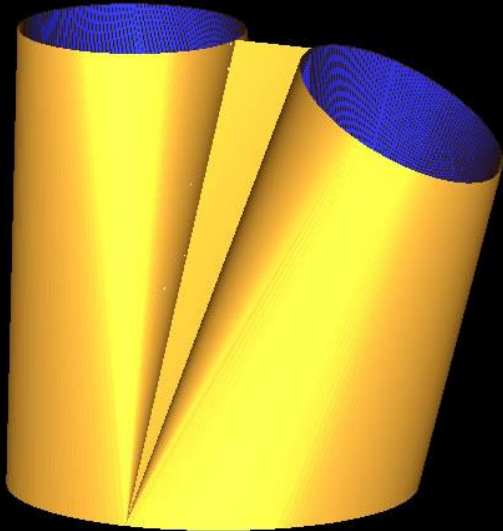
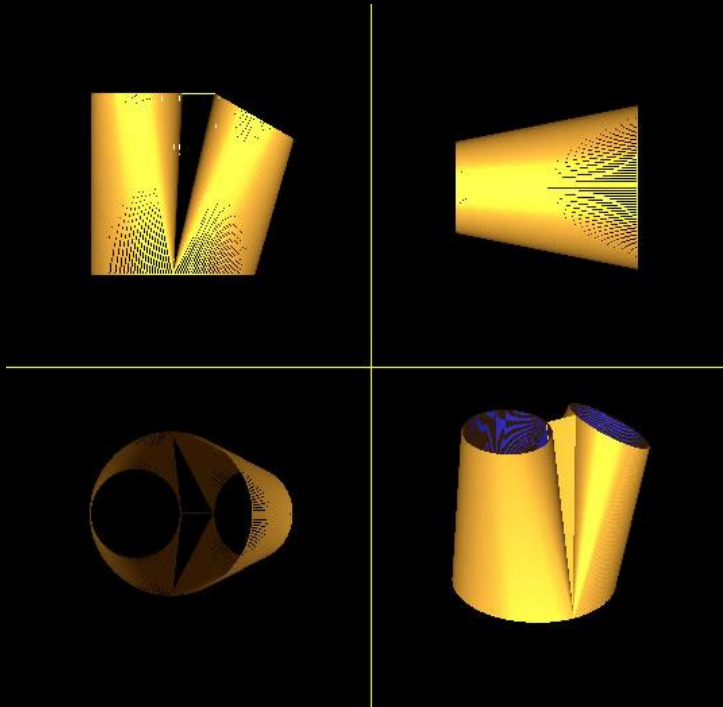
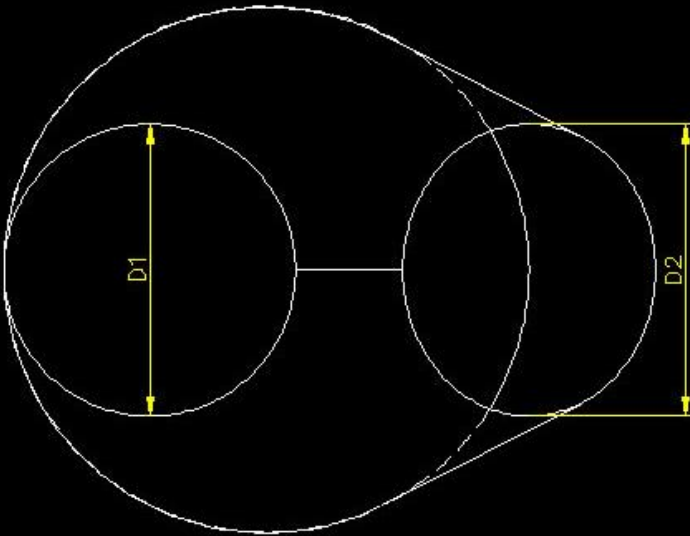
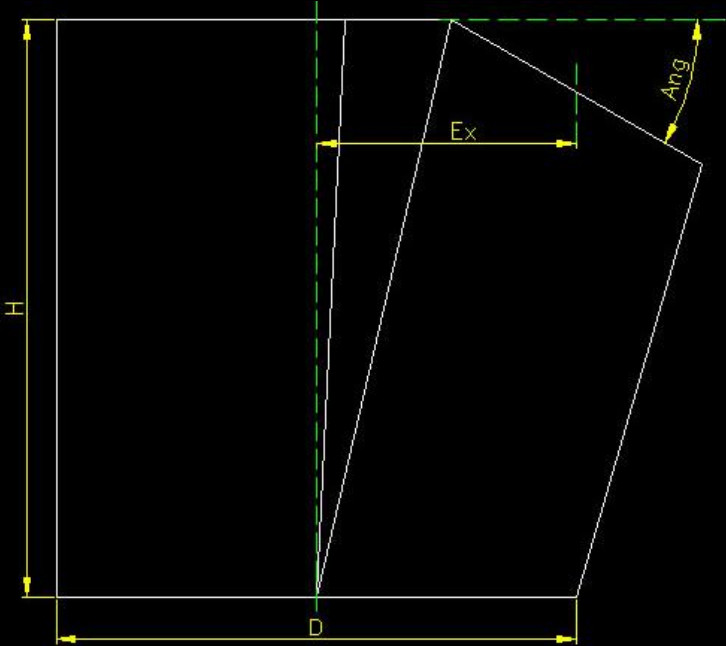
Sim

▼

e1

7 (Aço)

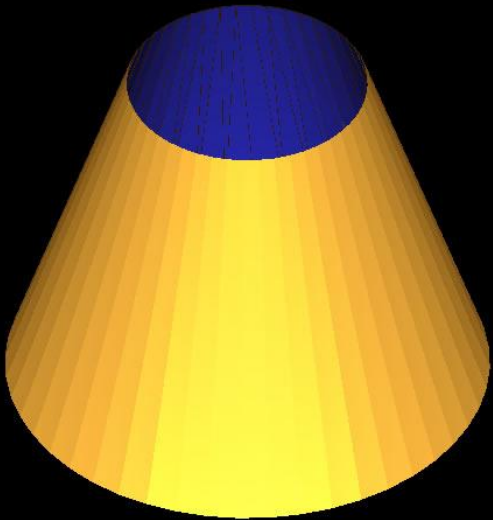
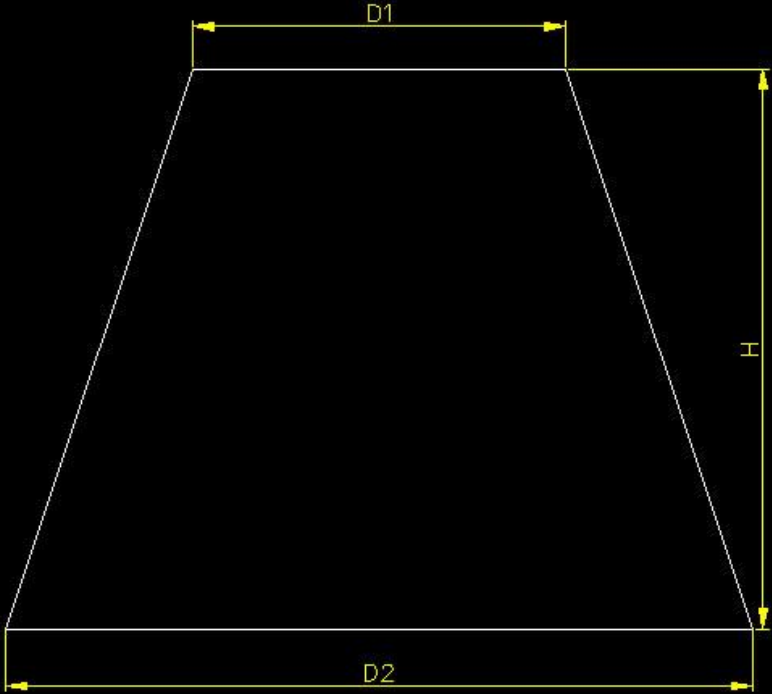
...



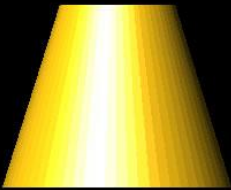
058 - Tronco de Cone (1) ★

Variantes de cotação: [Anterior](#) | [Próxima](#)

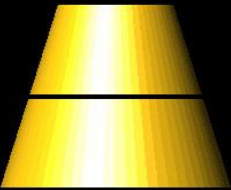
D1	200
D2	400
H	500
N1	1
N2	1
Qty	1
Calcular 3D	Sim
e1	1,2 (Aço)



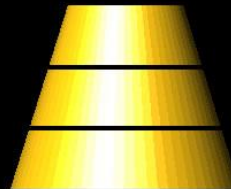
N1=1



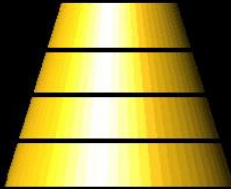
N1=2



N1=3



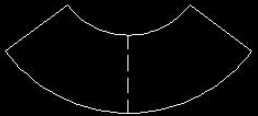
N1=4



N2=1



N2=2



N2=3

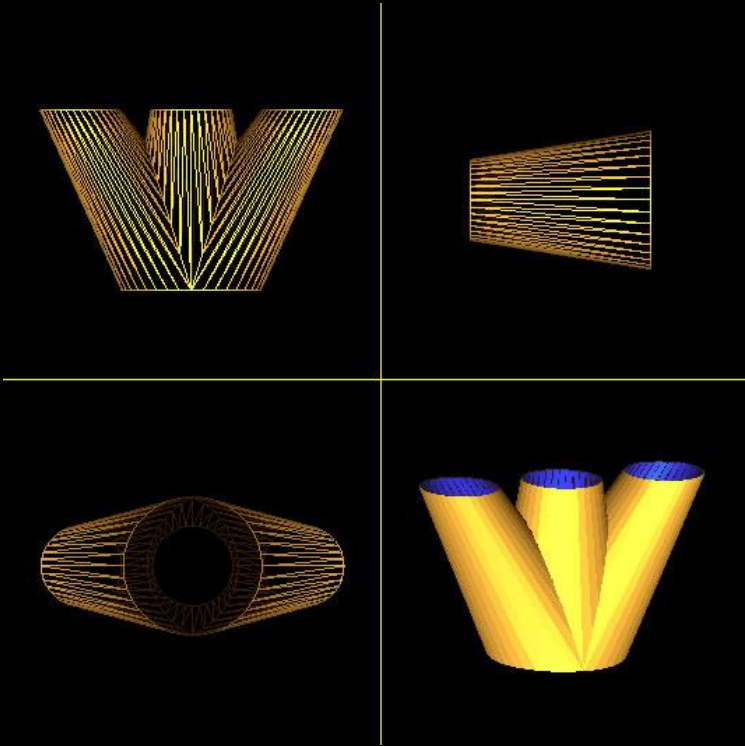
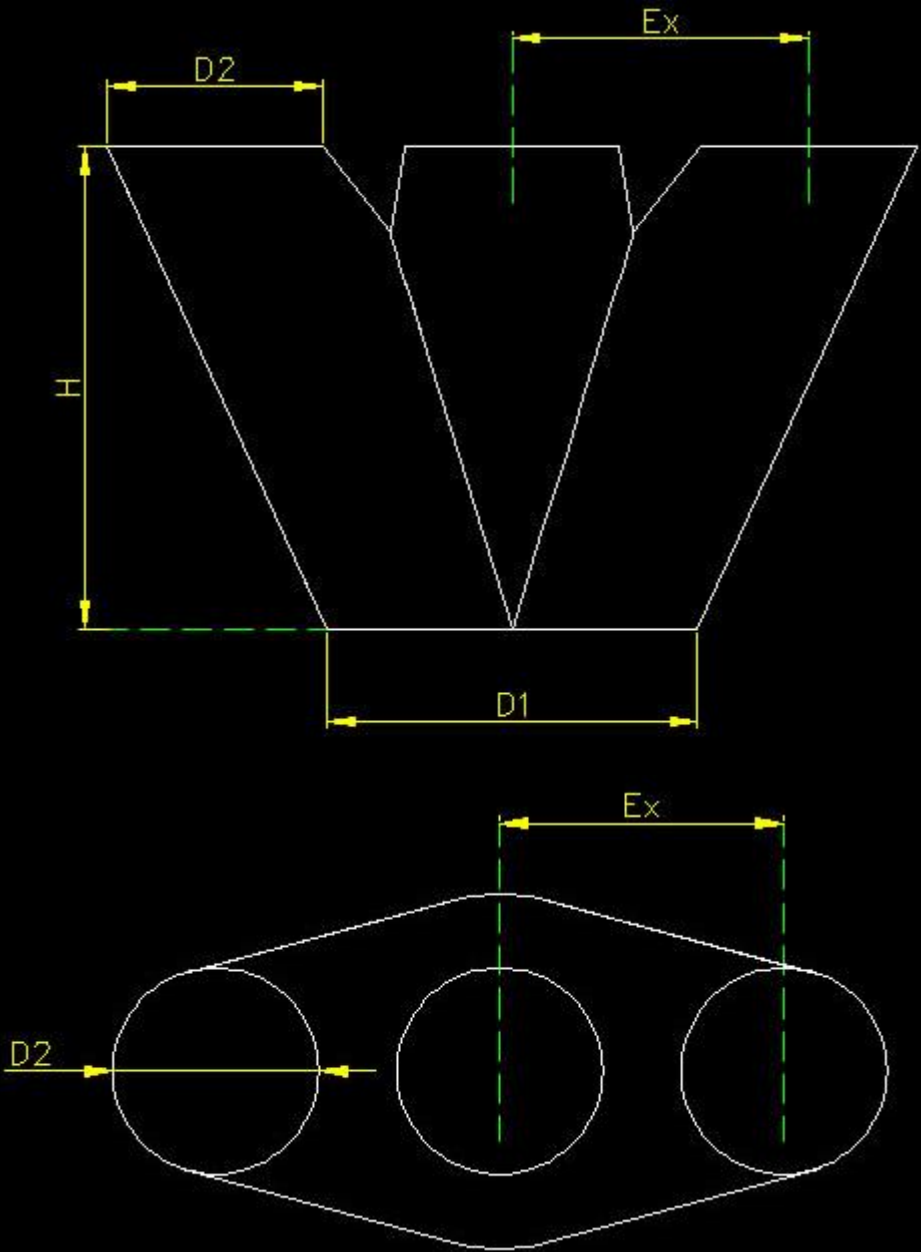
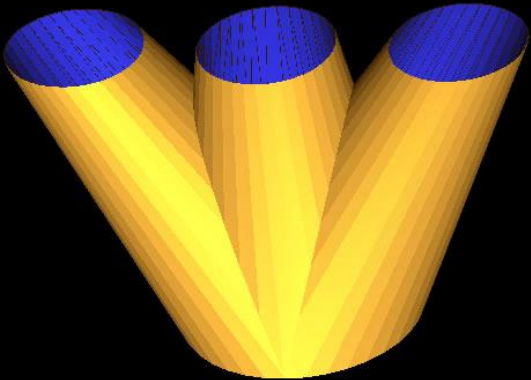


N2=4



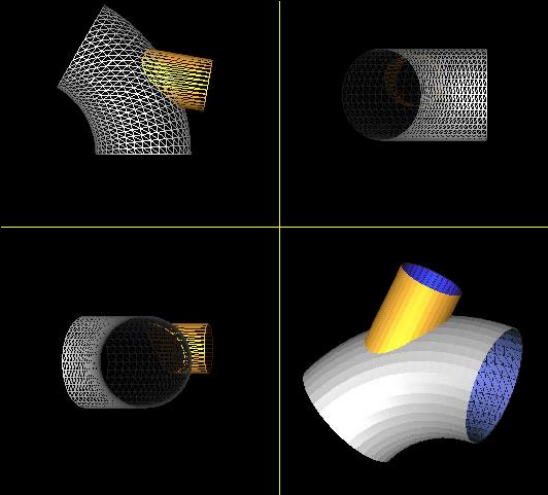
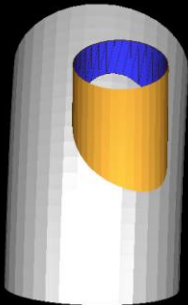
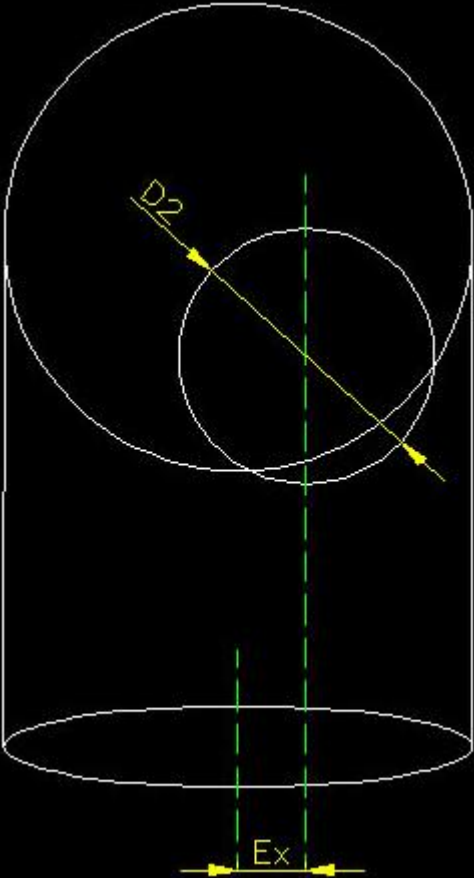
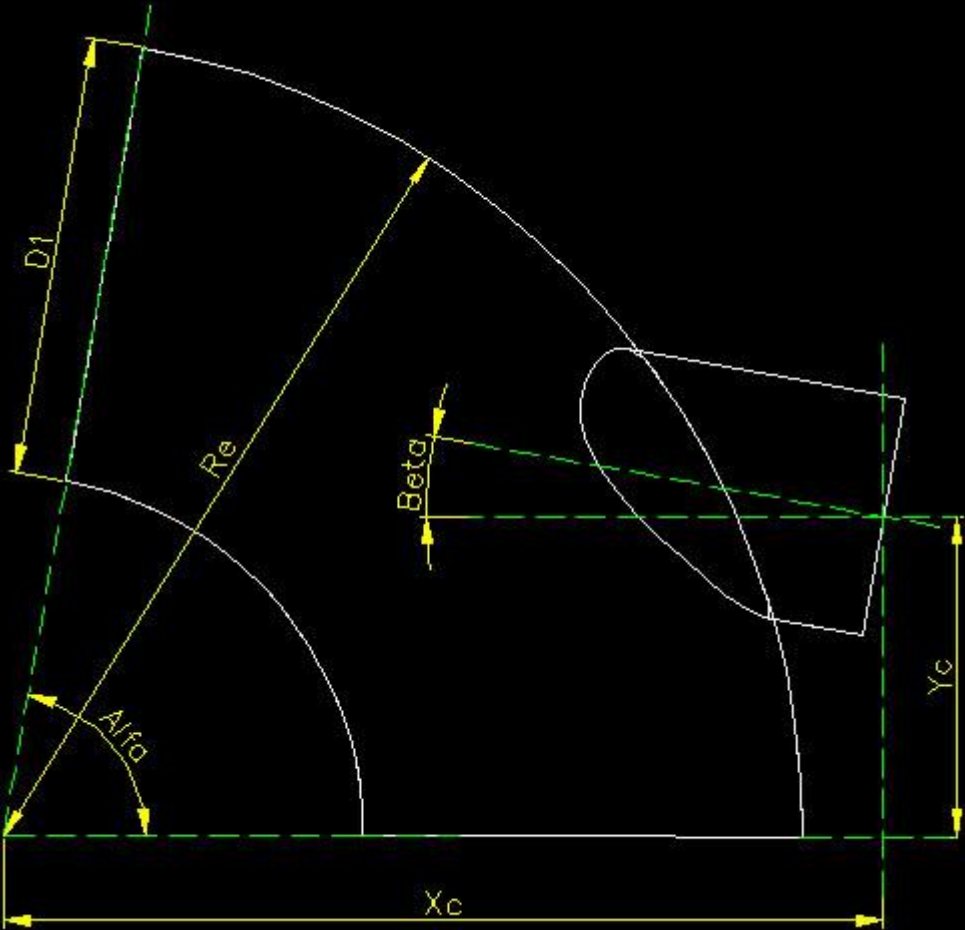
063 - Trifurcação Plana ☆

D1	1000
D2	580
Ex	800
H	1300
Ndiv	32 ...
Qtd	1
Calcular 3D	Sim ▼
e	10 (Aço) ...



064 - Intersecção Cilindro Curva

D1	550
D2	300
Alfa	60
Re	1000
Ex	80
Yc	400
Xc	1100
Beta	10
N div	16 ...
Qtd	1
Calcular 3D	Sim
e	12,7 (Aço) ...



065 - Multifurcação Genérica

H

600

D1

700

D2

250

D3

600

F

300

N

4

Ang

15

AngRef

10

Ndiv

32

...

Qtd

1

Calcular 3D

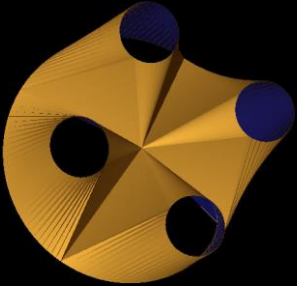
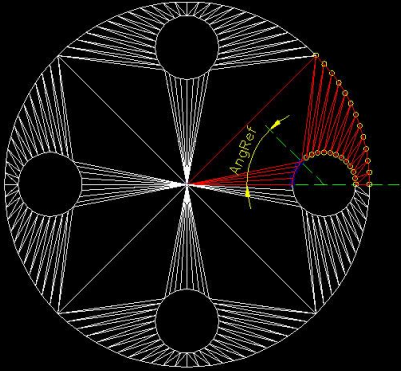
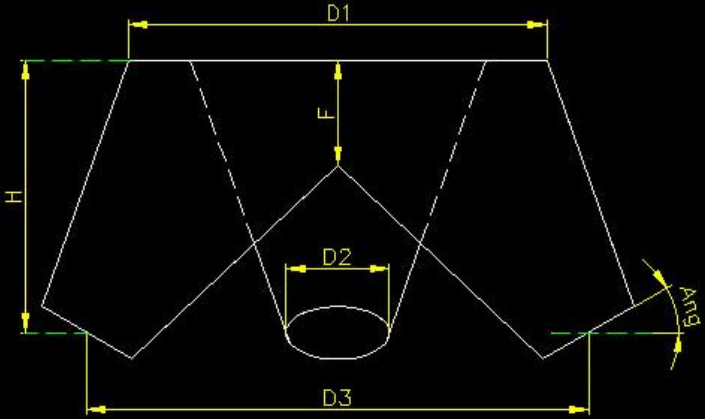
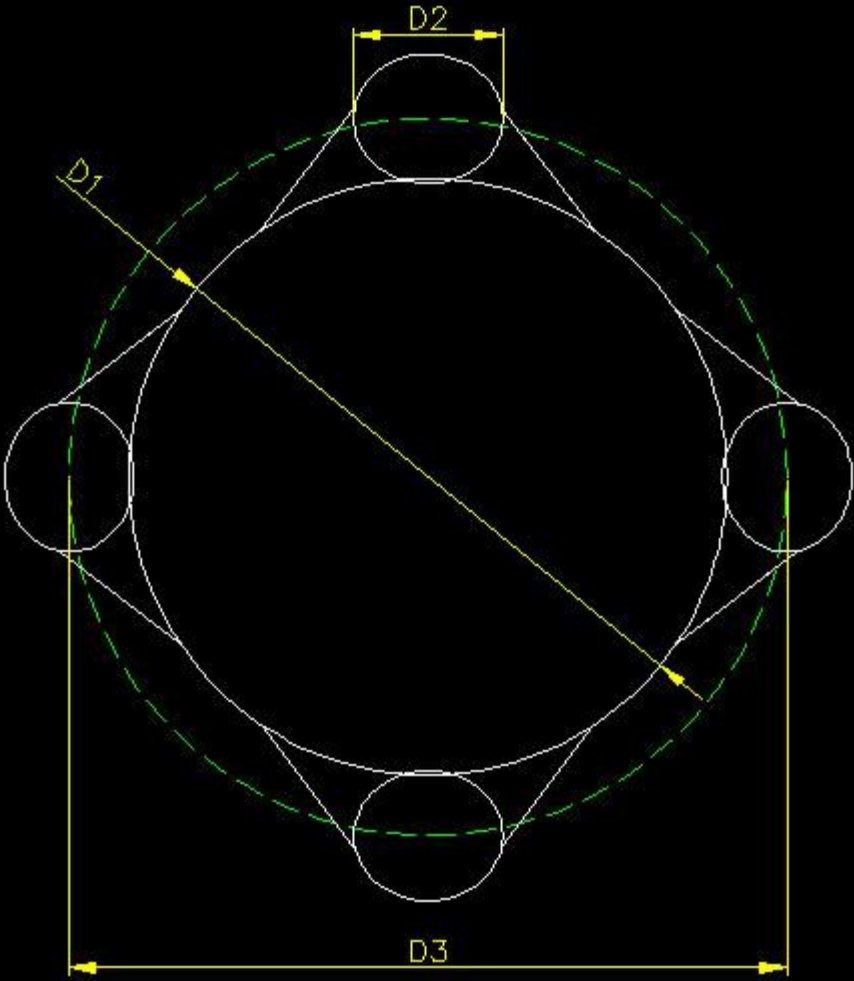
Sim

▼

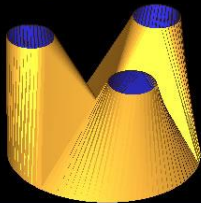
e

10 (Aço)

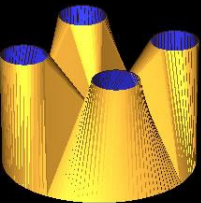
...



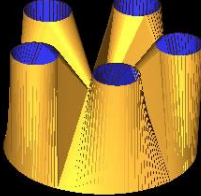
N = 3



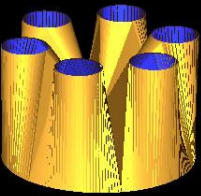
N = 4



N = 5

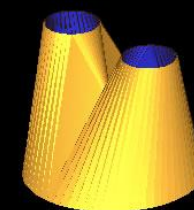
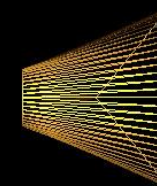
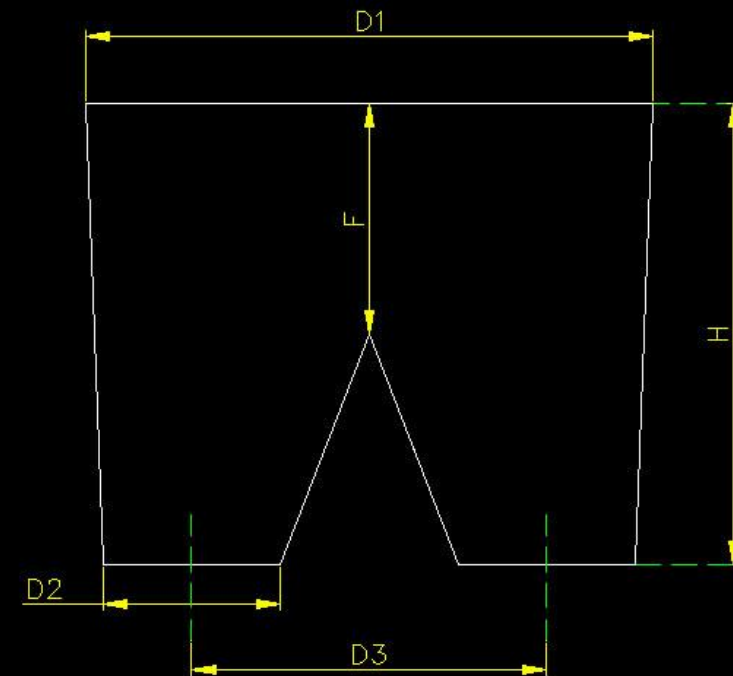
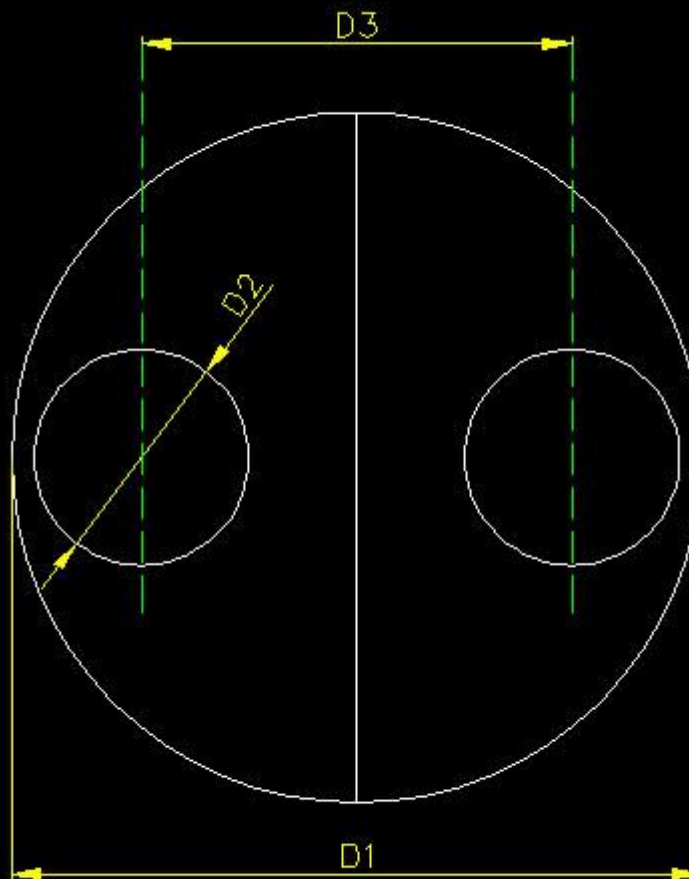
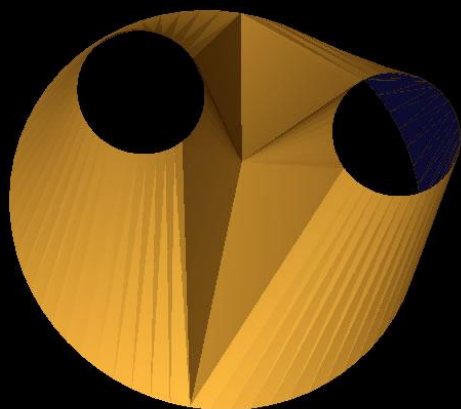


N = 6



066 - Multifurcação Dupla ☆

H	400
D1	500
D2	150
D3	300
F	250
Ndiv	32 ...
Qty	1
Calcular 3D	Sim
e	10 (Aço)



067 - Multifurcação Tripla ☆

H

600

D1

500

D2

200

D3

650

F

300

Ndiv

32

...

Qtd

1

Calcular 3D

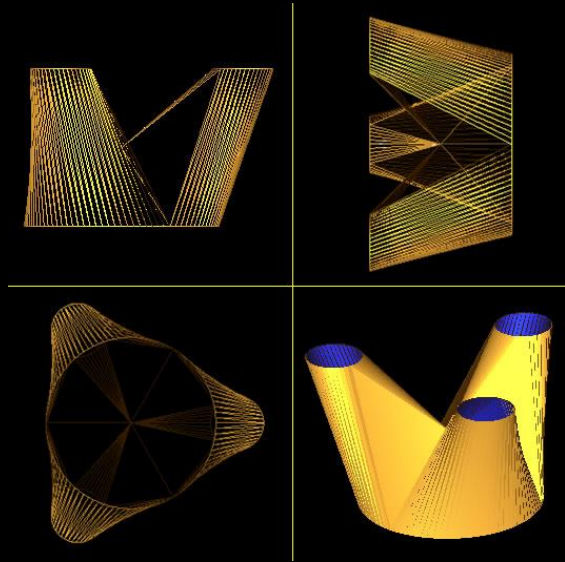
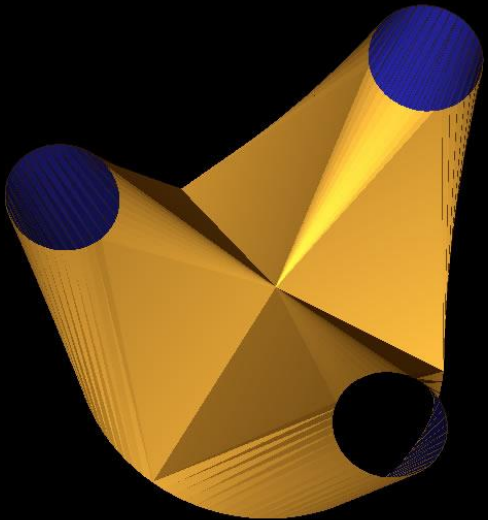
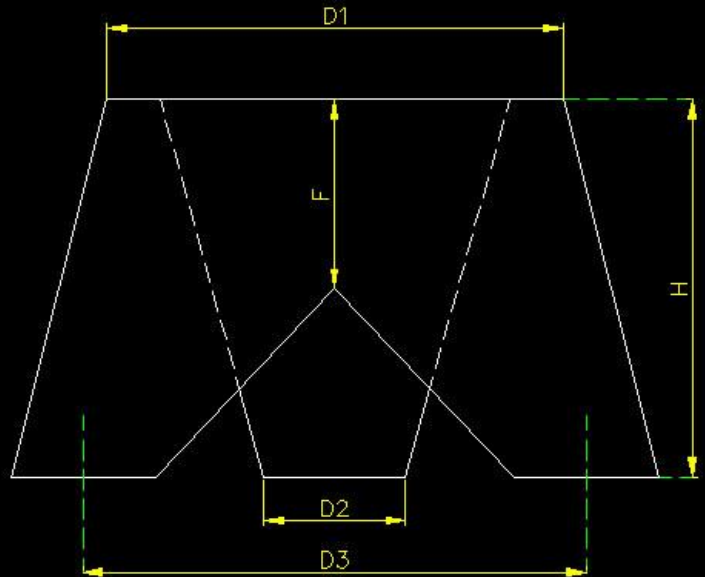
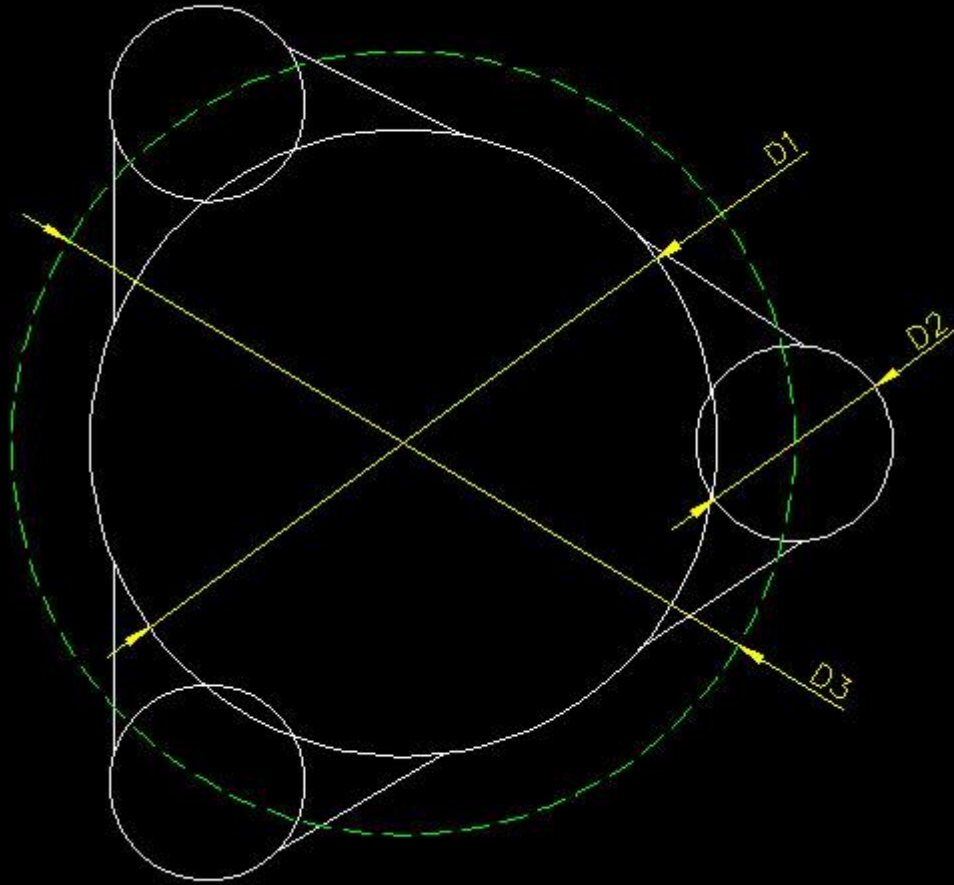
Sim

▼

e

6 (Aço)

...



068 - Multifurcação Quádrupla

H

500

D1

450

D2

200

D3

650

F

200

Ndiv

32

...

Qtd

1

Calcular 3D

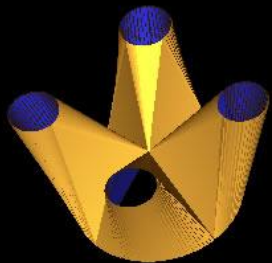
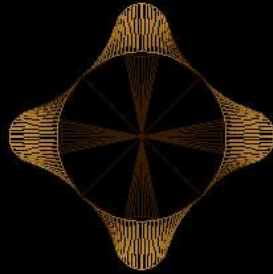
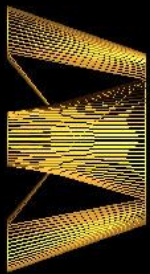
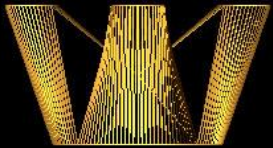
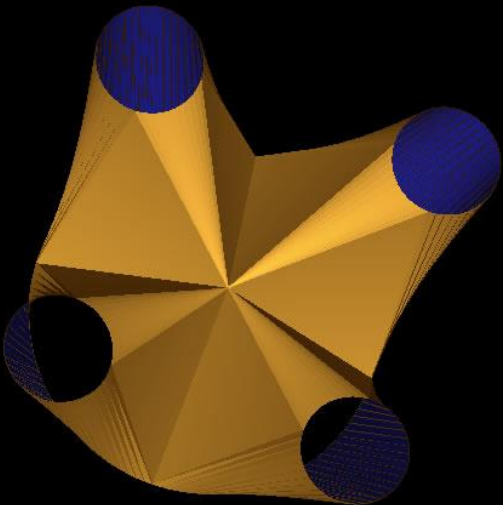
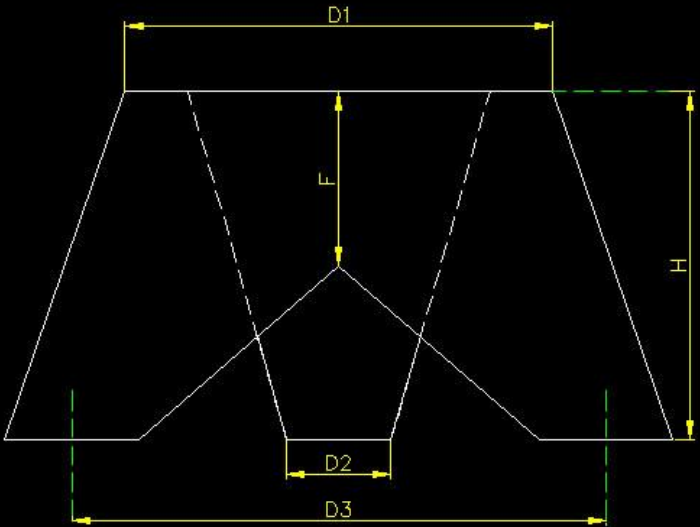
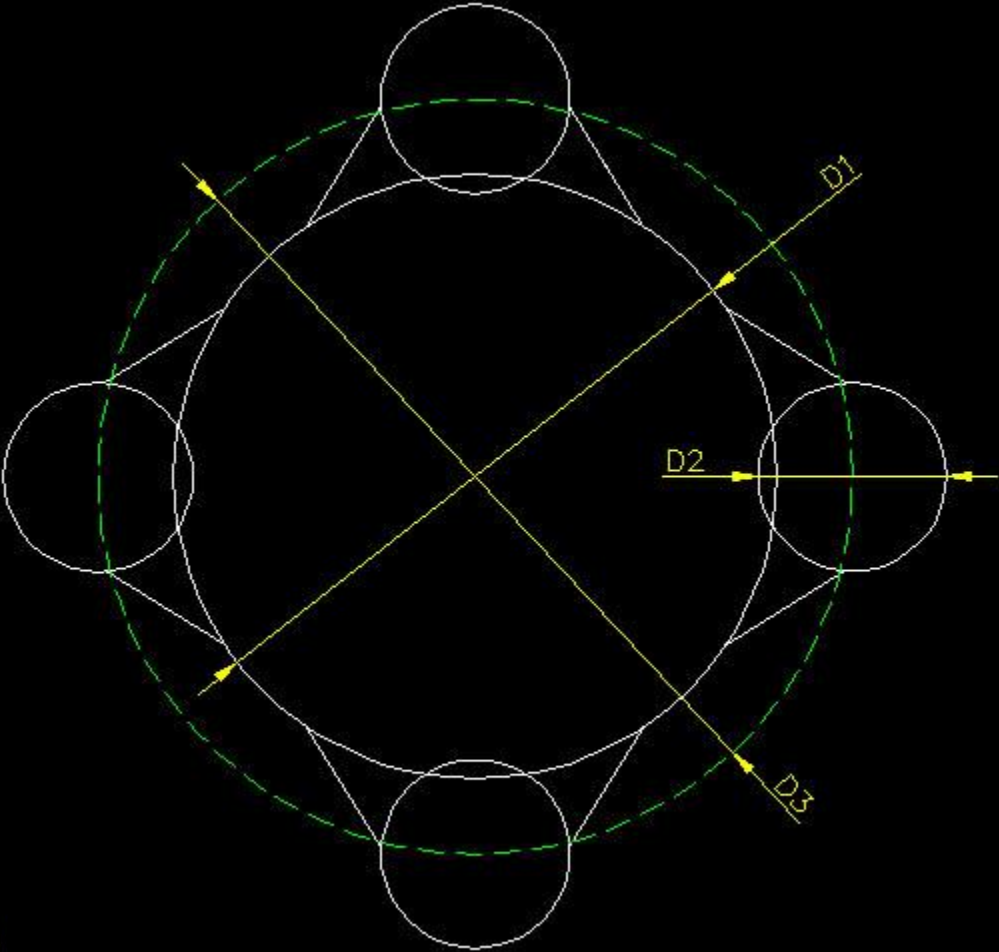
Sim

▼

e

6 (Aço)

...



070 - Tronco de Cone Excêntrico

D1

1000

D2

500

H

875

X1

200

Y1

100

Ang

30

N div

32

...

Qtd

1

Calcular 3D

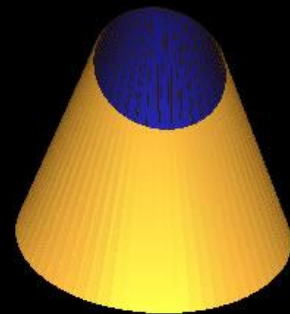
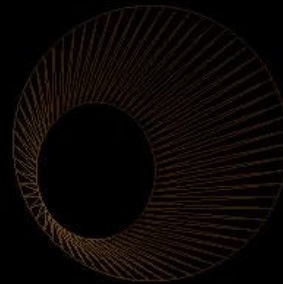
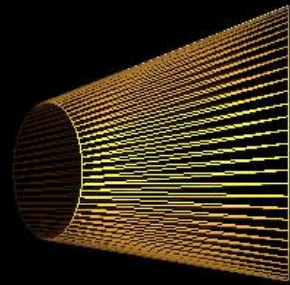
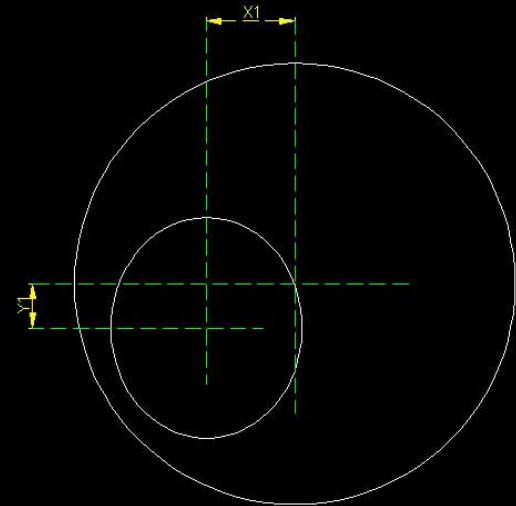
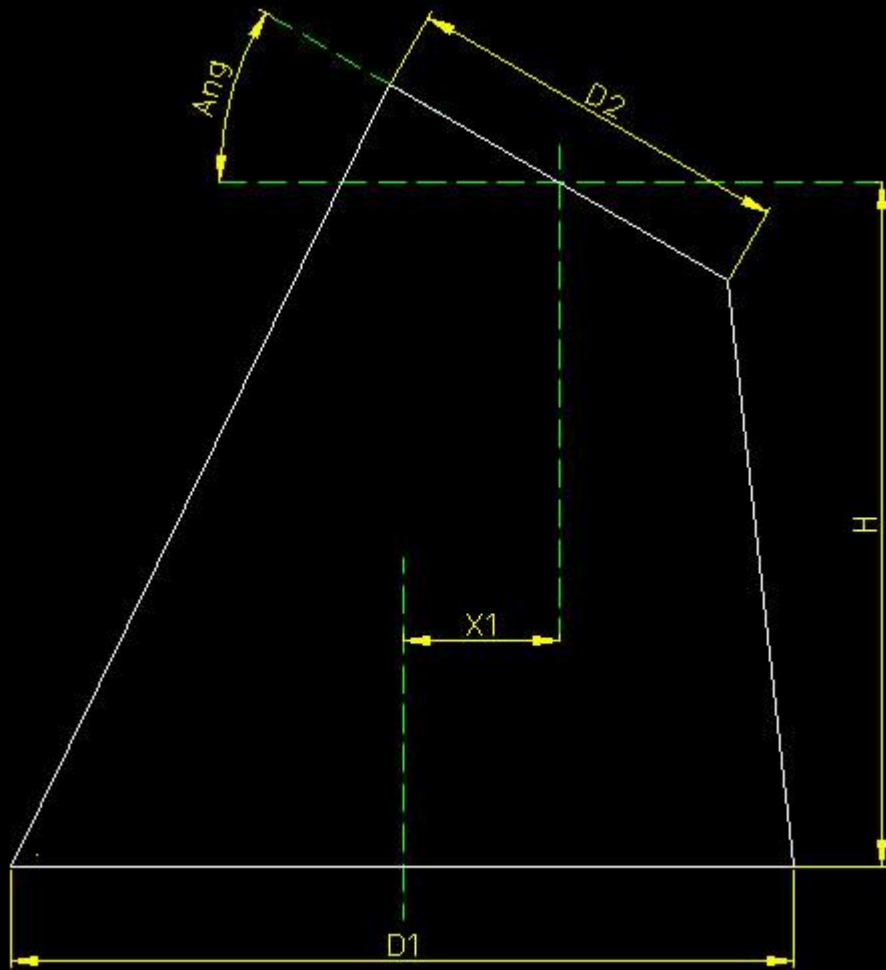
Sim

▼

e

12,7 (Aço)

...



071 - Rotor Centrífugo ☆

D1 400

D2 500

D3 50

DP 400

B1 35

B2 30

L1 200

L2 100

N 8

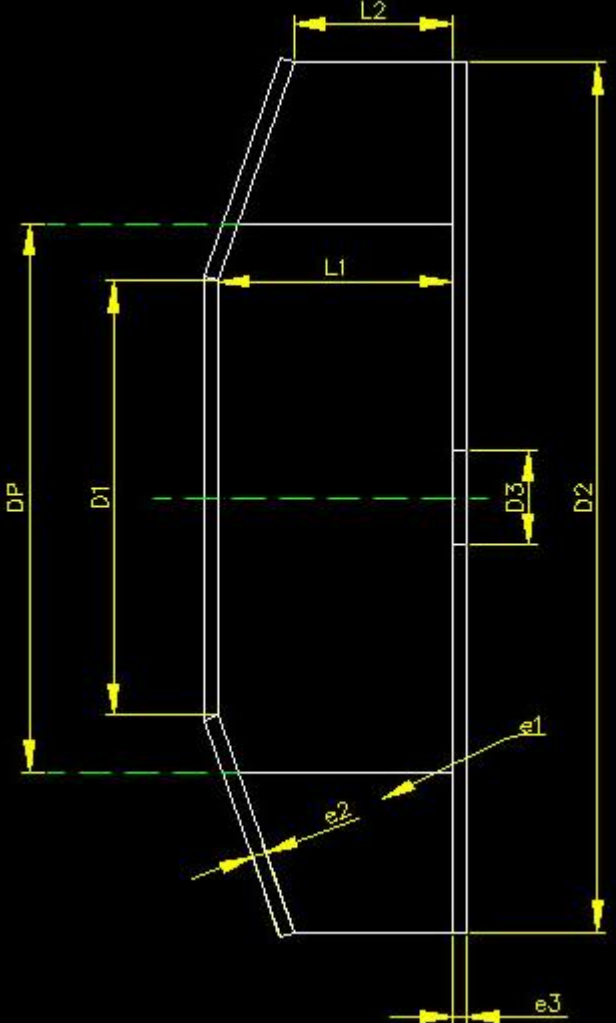
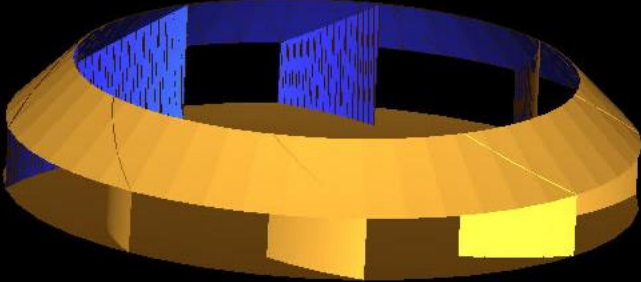
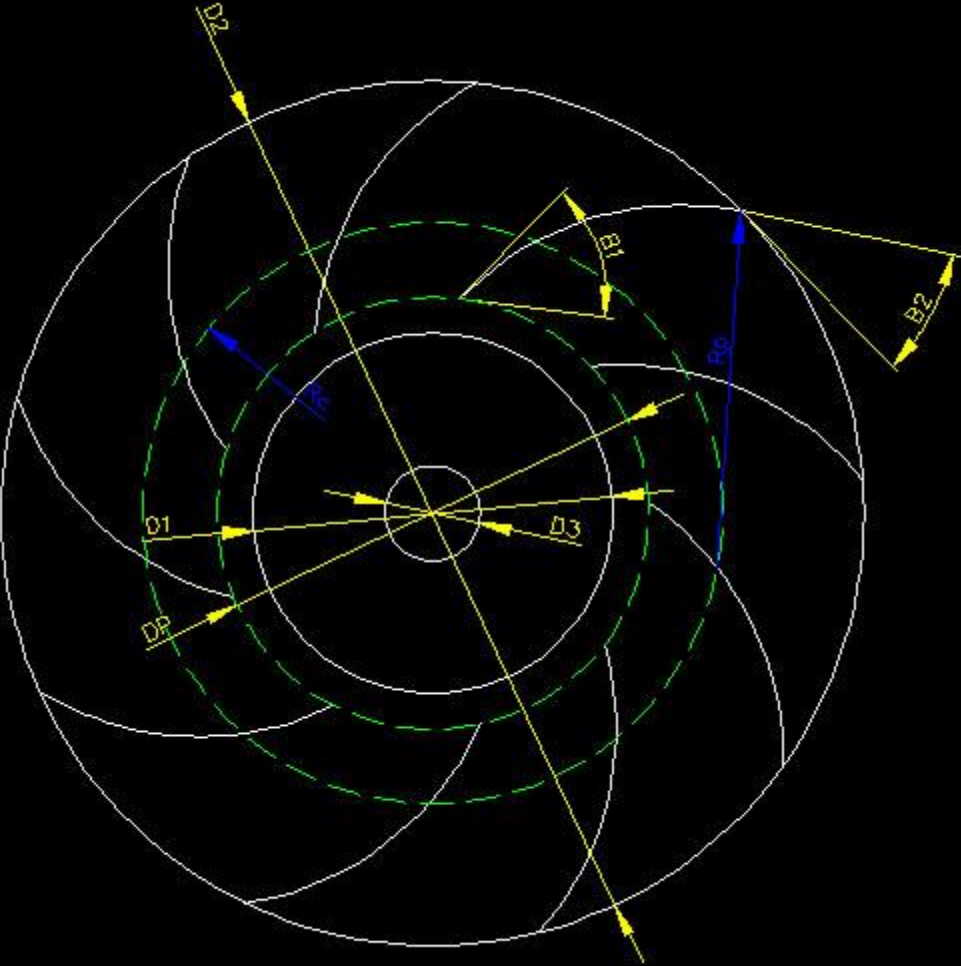
Qtd 1

Calcular 3D Sim

e1 10 (Aço) ...

e2 10 (Aço) ...

e3 10 (Aço) ...



072 - Tronco de Pirâmide ☆

Lx1

700

Ly1

700

Lx2

400

Ly2

300

H

600

Ang

15

Ex

150

Ey

150

Qtd

1

Tipo

A

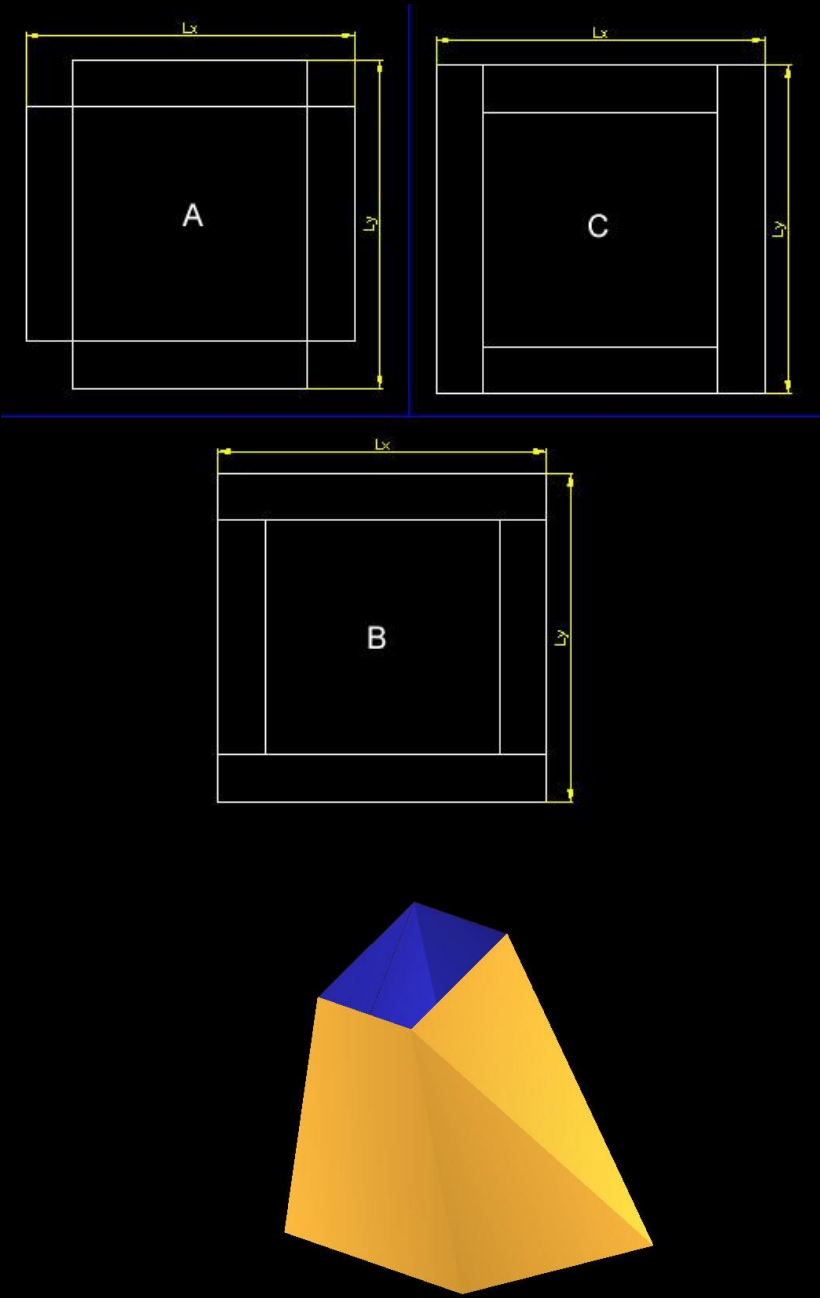
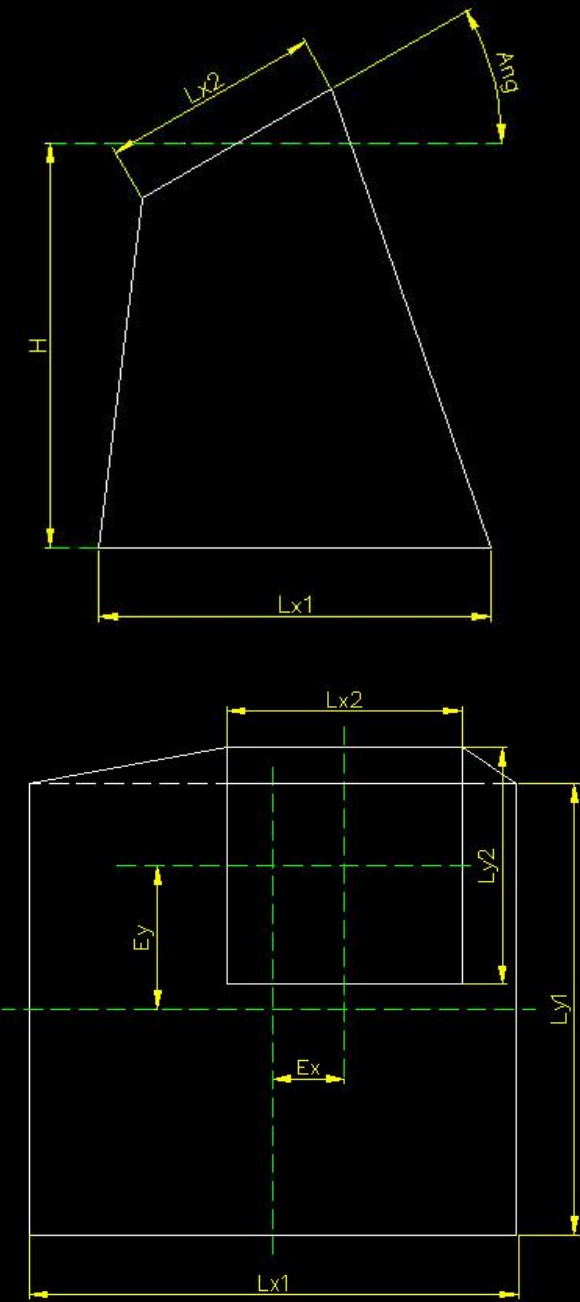
Calcular 3D

Sim

e

6 (Aço)

...



073 - Curva com Redução ☆

D1

400

D2

1000

Ang

90

Rc

1600

Ng

5

N div

32

...

Qtd

1

Calcular 3D

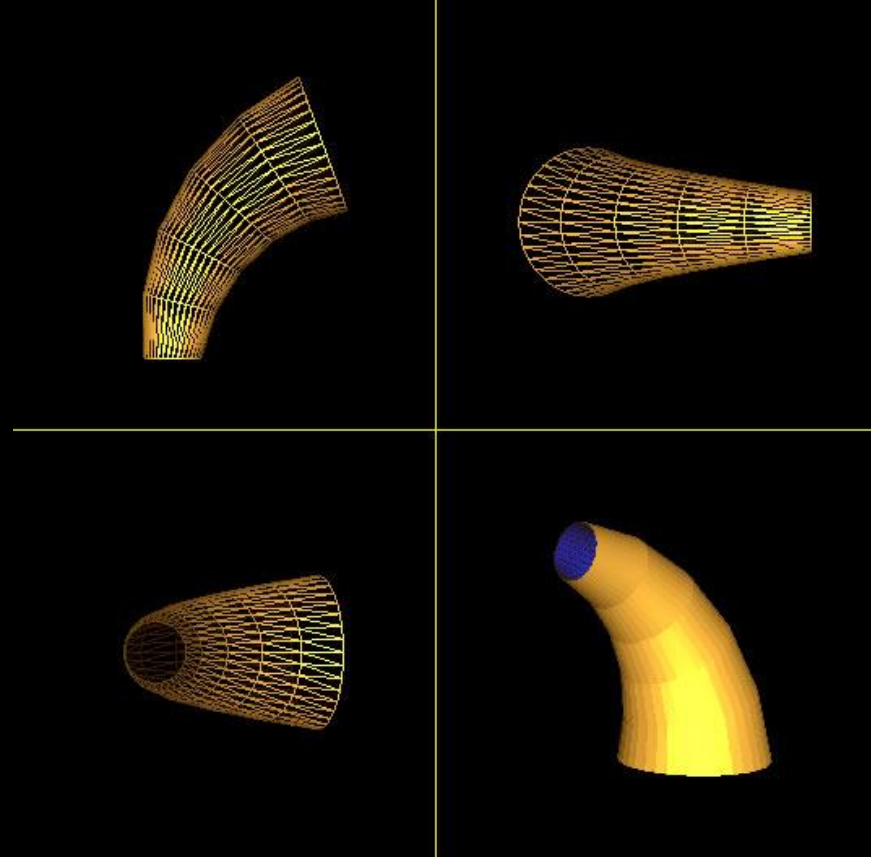
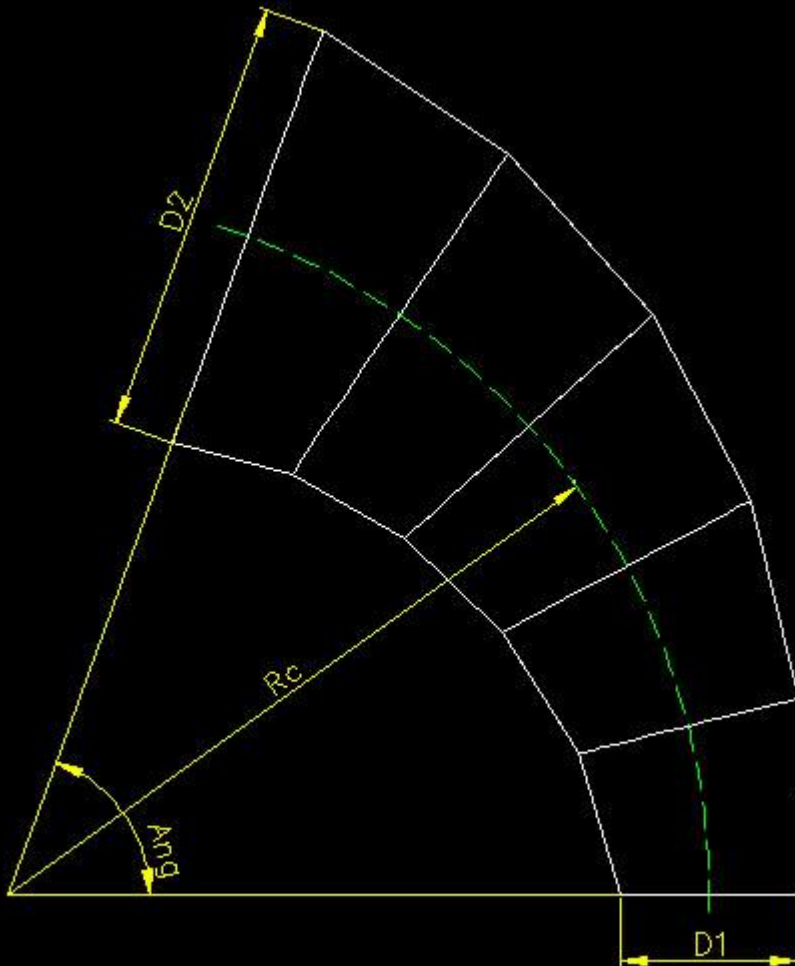
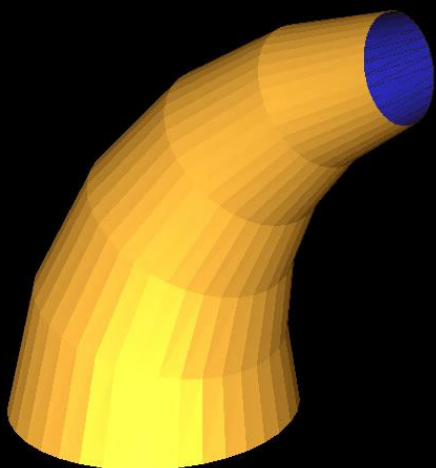
Sim

▼

e

12,7 (Aço)

...



074 - Esfera ☆

D

3000

A

400

Ng

12

N div

16

Qtd

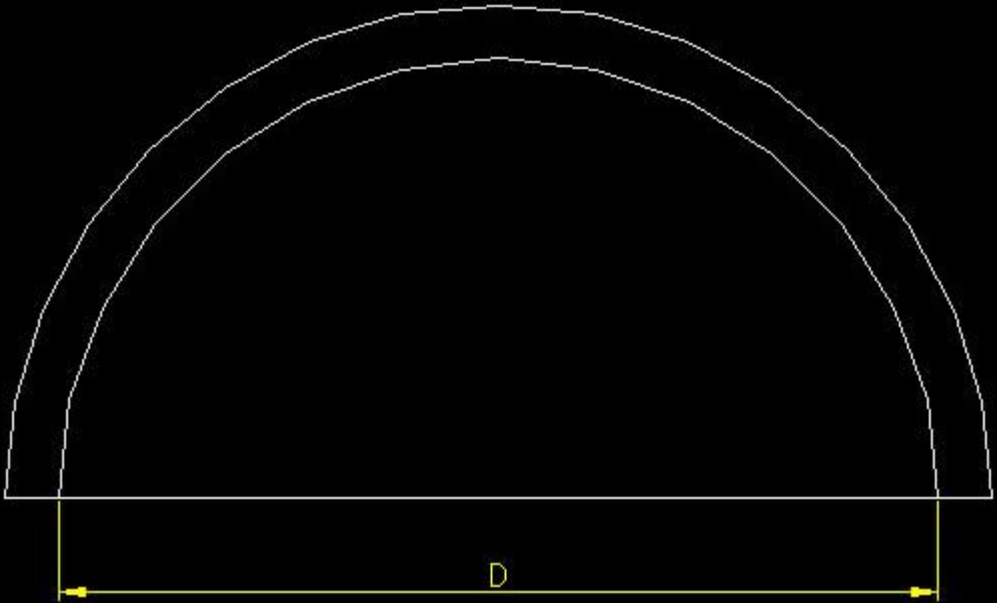
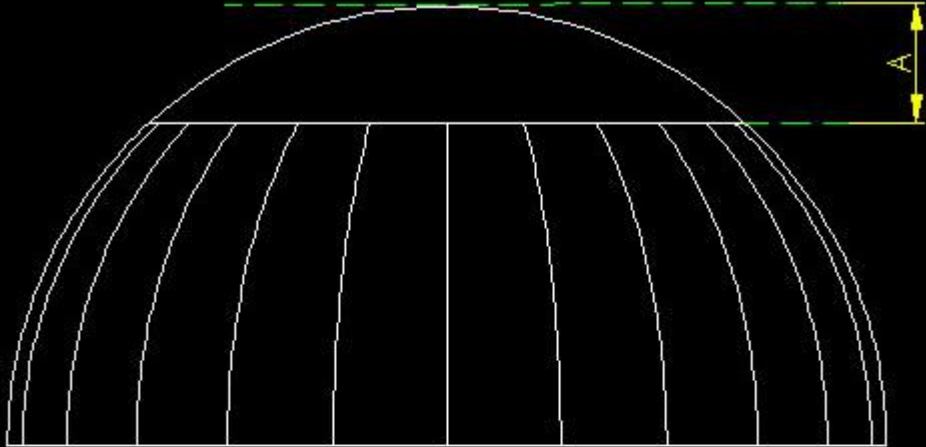
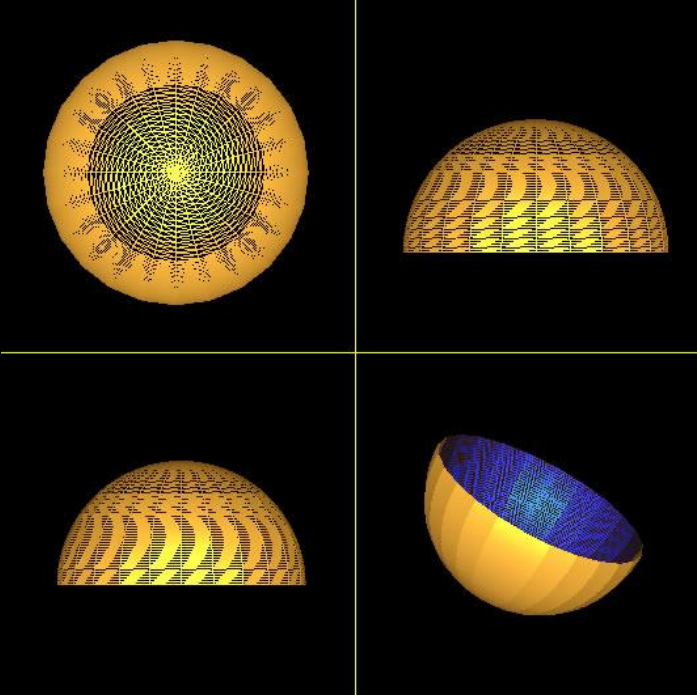
1

Calcular 3D

Sim ▼

e

12,7 (Aço) ...



076 - Transição Ret/Ret Cantos Arredondados

X1

1000

X2

400

Y1

800

Y2

300

R1

100

R2

50

H

450

N div

16

...

Qtd

1

Calcular 3D

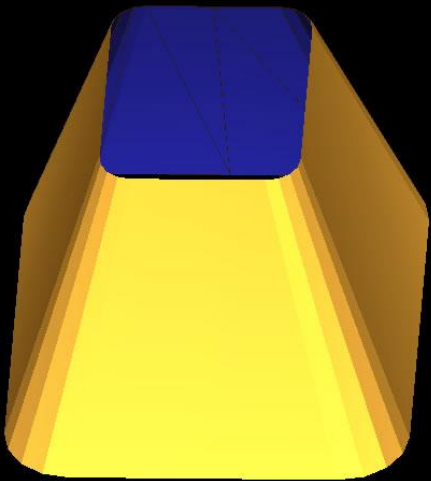
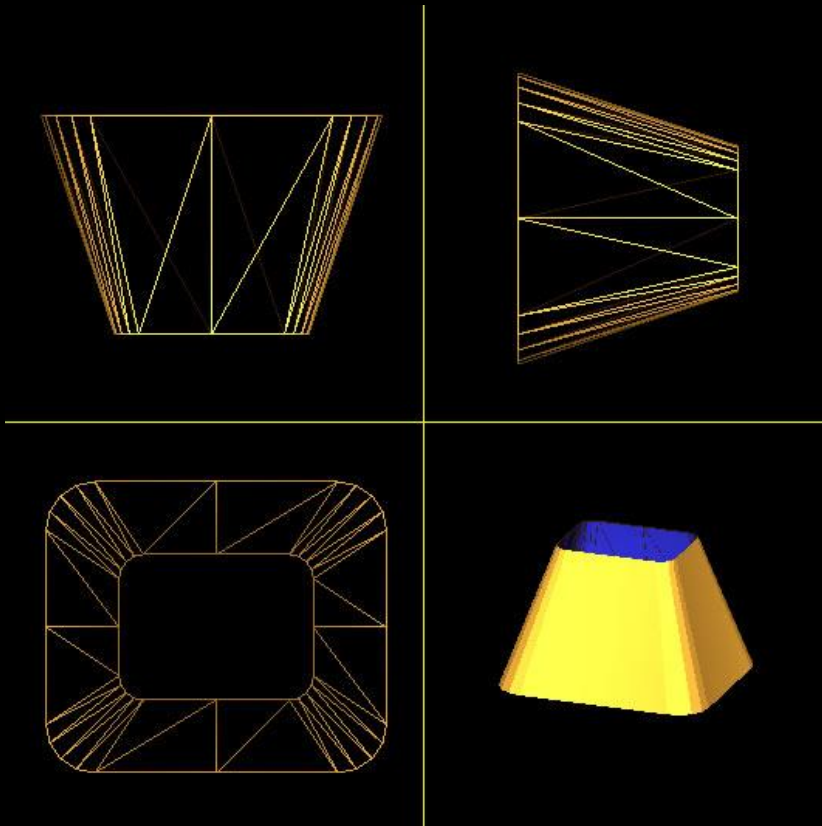
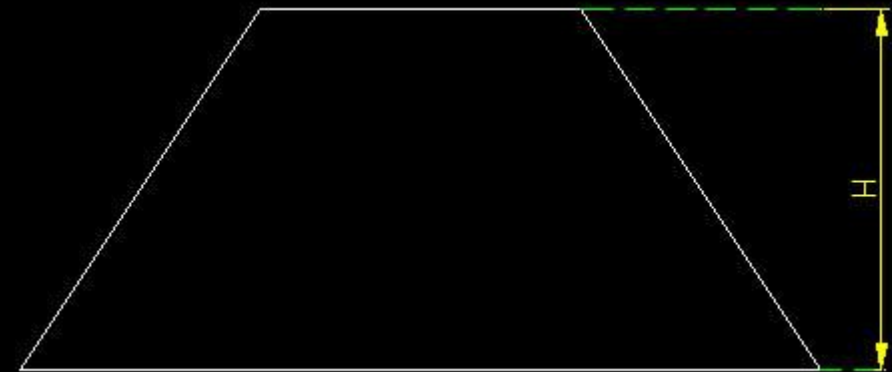
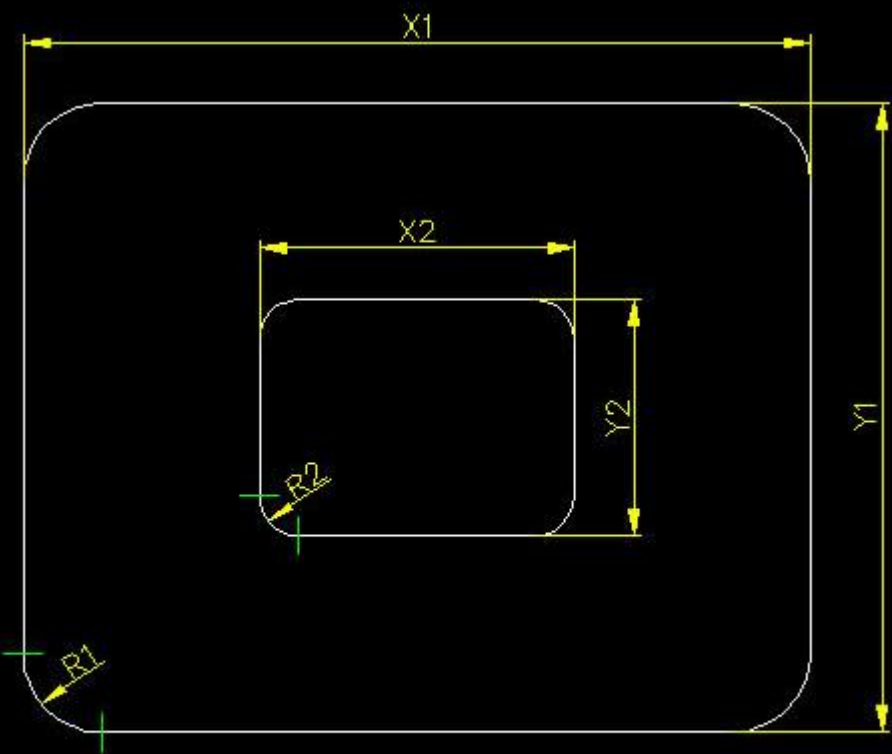
Sim

▼

e

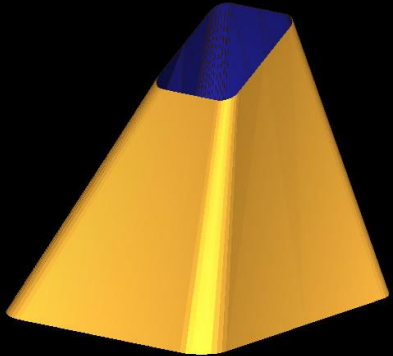
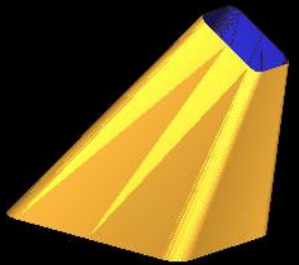
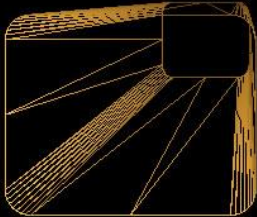
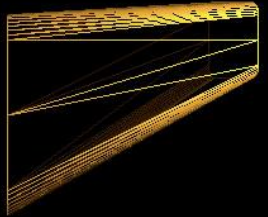
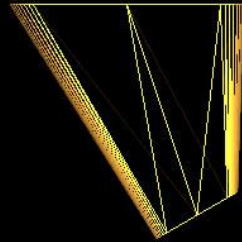
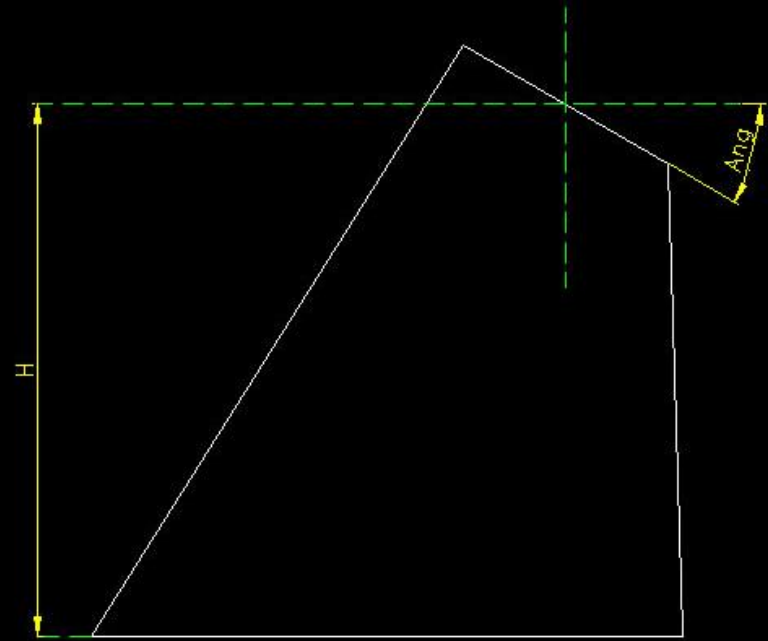
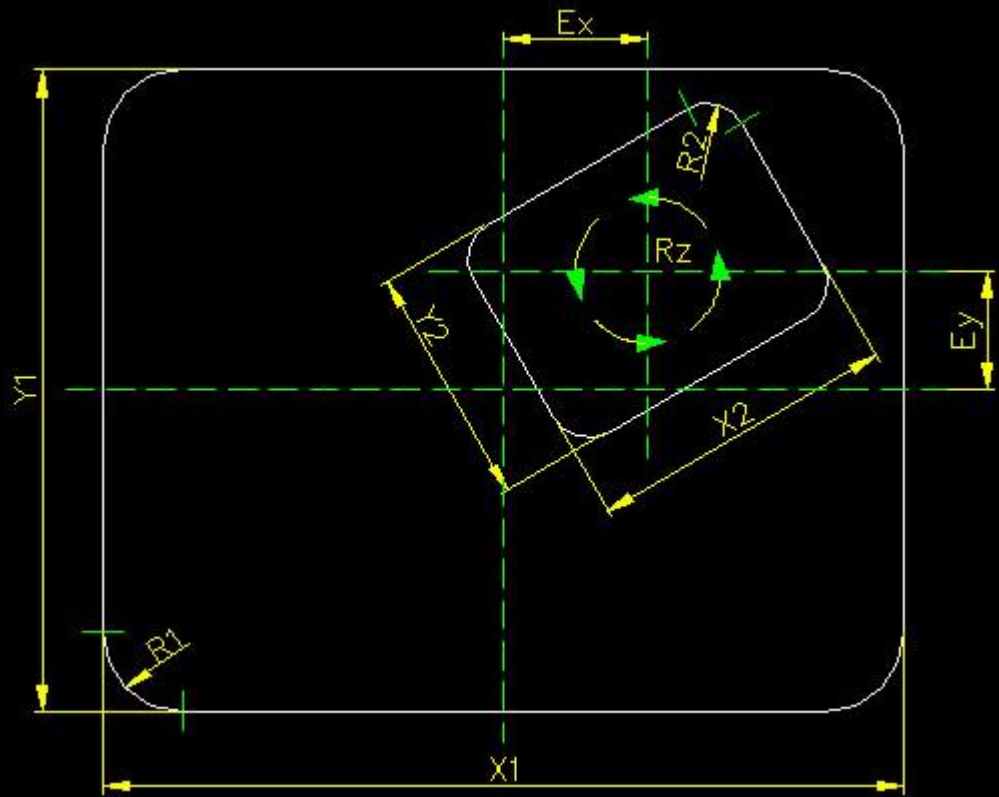
12,7 (Aço)

...



077 - Transição Ret/Ret Cantos Arredondados Inclinação

X1	1000
X2	400
Y1	600
Y2	300
R1	100
R2	50
H	500
Ex	200
Ey	100
Rz	0
Ang	20
N div	16 ...
Qtd	1
Calcular 3D	Sim ▼
e	12,7 (Aço) ...



078 - Transição Oval Redondo

R1

200

D

300

H

800

Ex

150

Ey

0

X1

1000

N div

16

...

Qtd

1

Calcular 3D

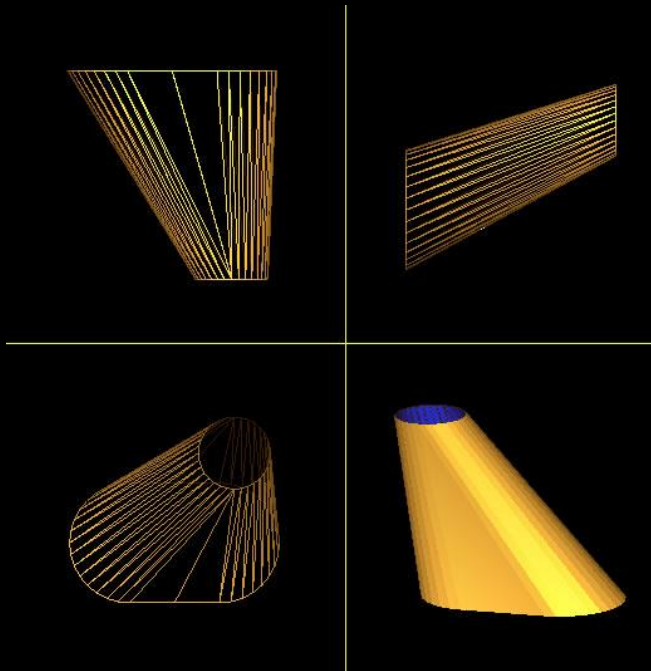
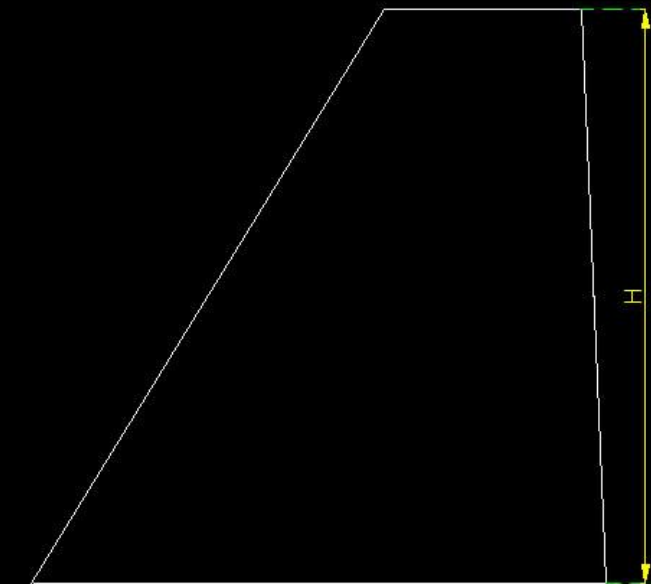
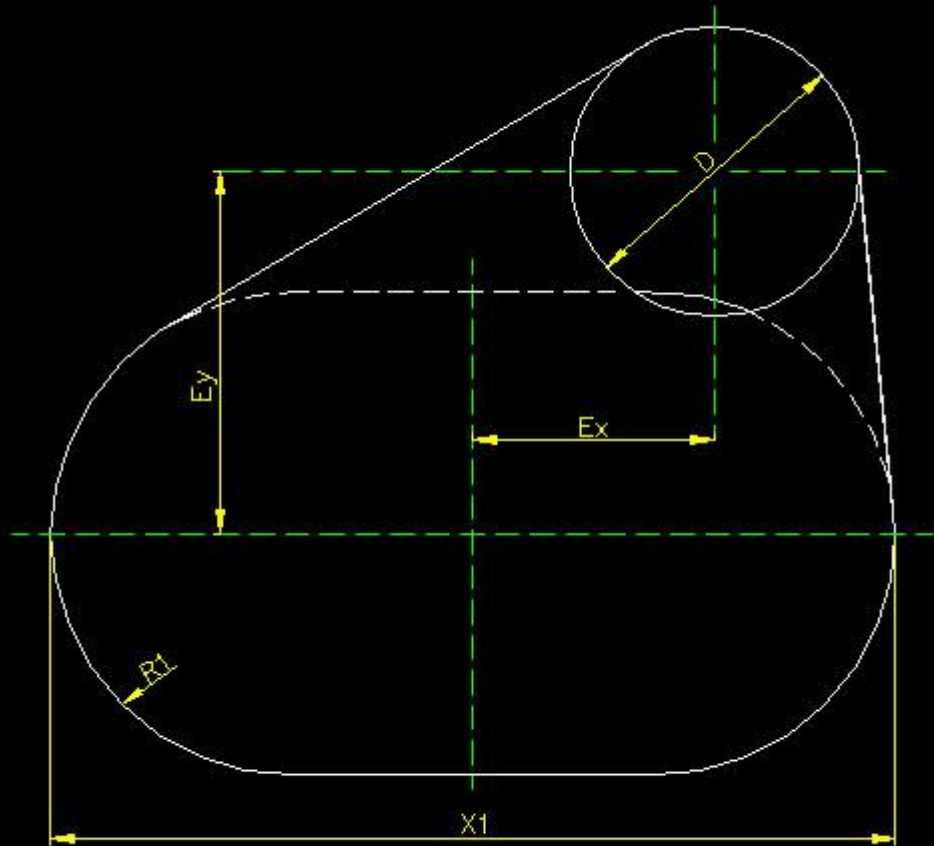
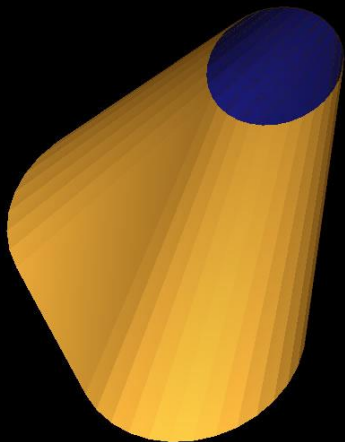
Sim

▼

e

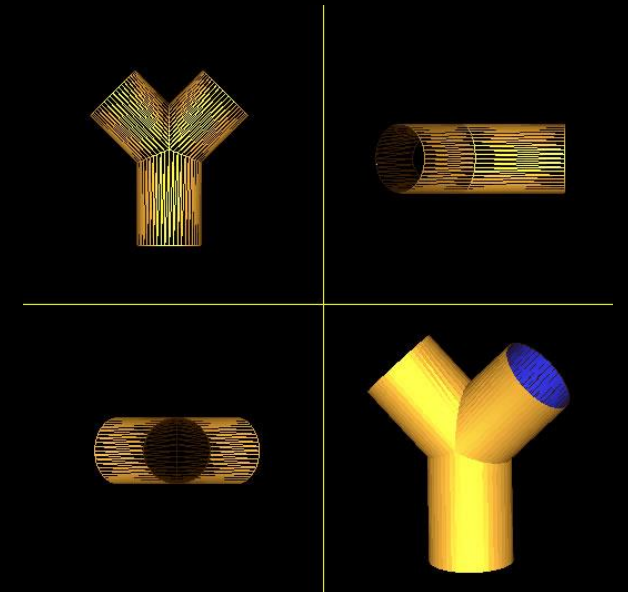
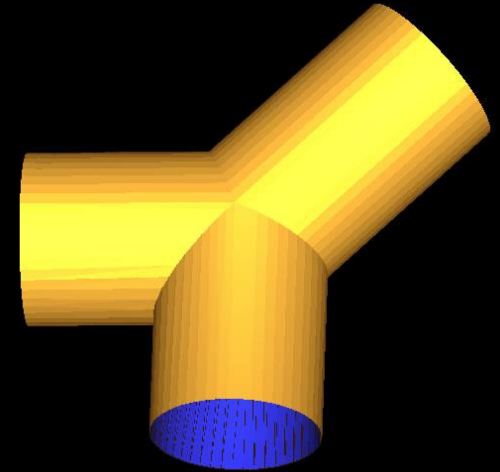
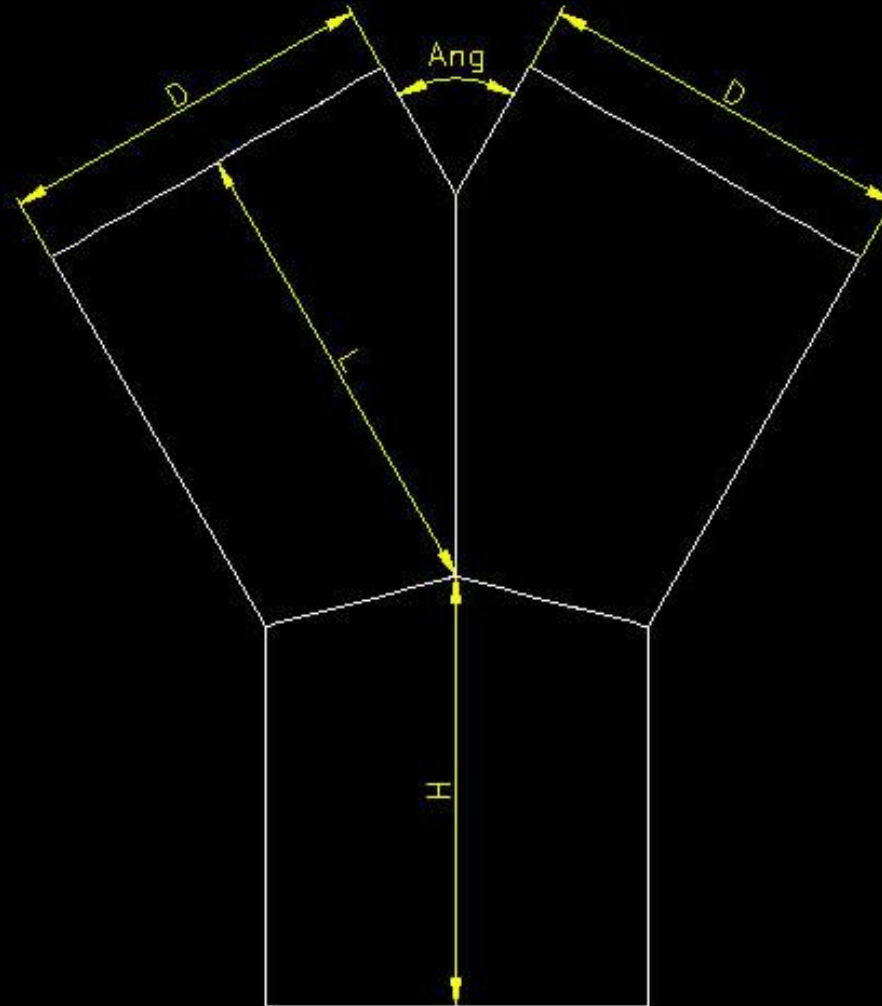
12,7 (Aço)

...



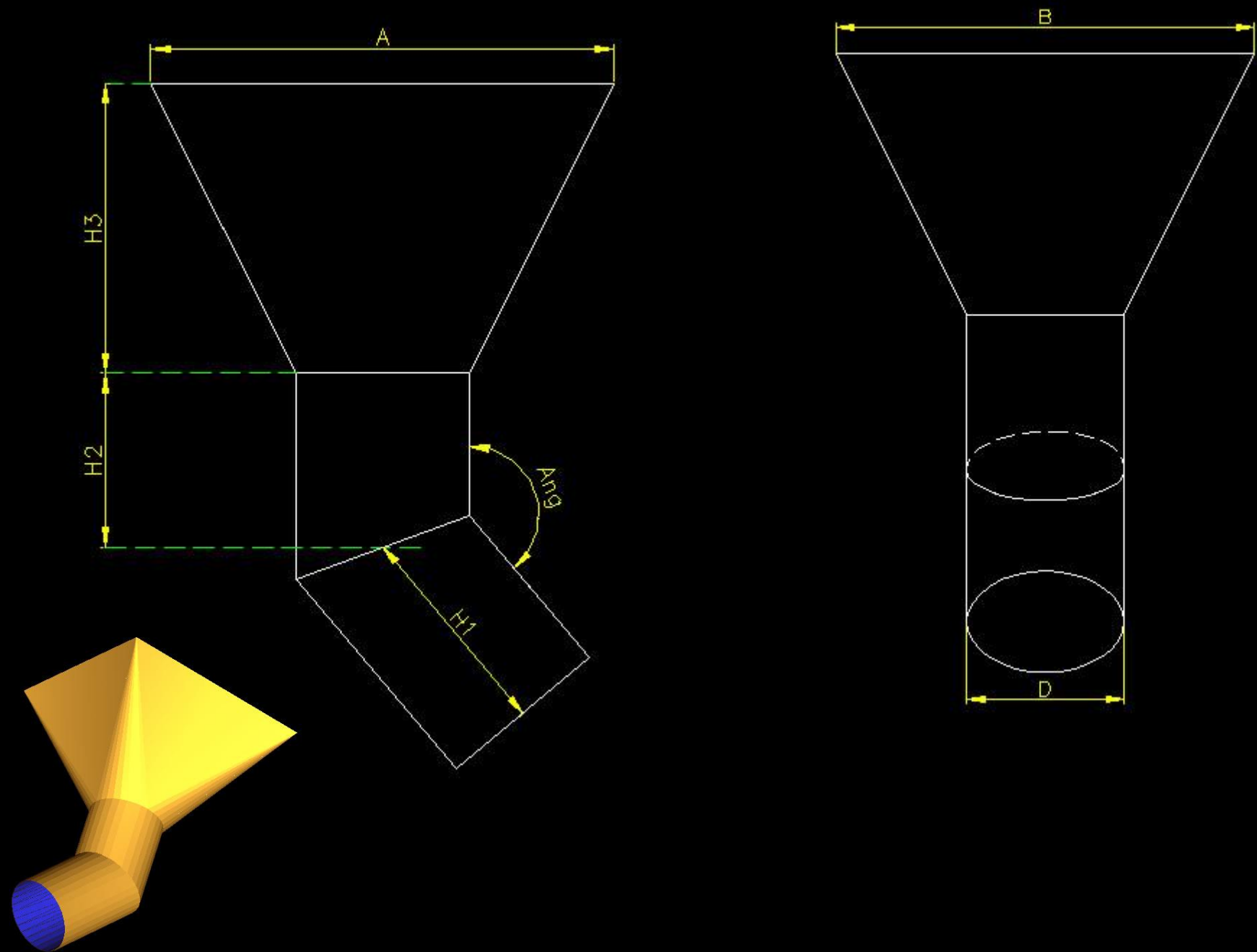
080 - Bifurcação Cilindro Cilindro

D	800
H	1200
L	1000
Ang	60
Ndiv	32 ...
Qtd	1
Calcular 3D	Sim ▼
e	10 (Aço) ...



082 - Redução Tipo 2 ☆

D	300
A	800
B	800
H1	600
H2	750
H3	750
Ang	140
N div	16 ...
Qtd	1
Método	N
Calcular 3D	Sim
e	12,7 (Aço) ...



083 - Redução Tipo 1 ☆

D

300

A

800

B

800

H1

600

H2

750

N div

16

...

Qty

1

Método

N

▼

Calcular 3D

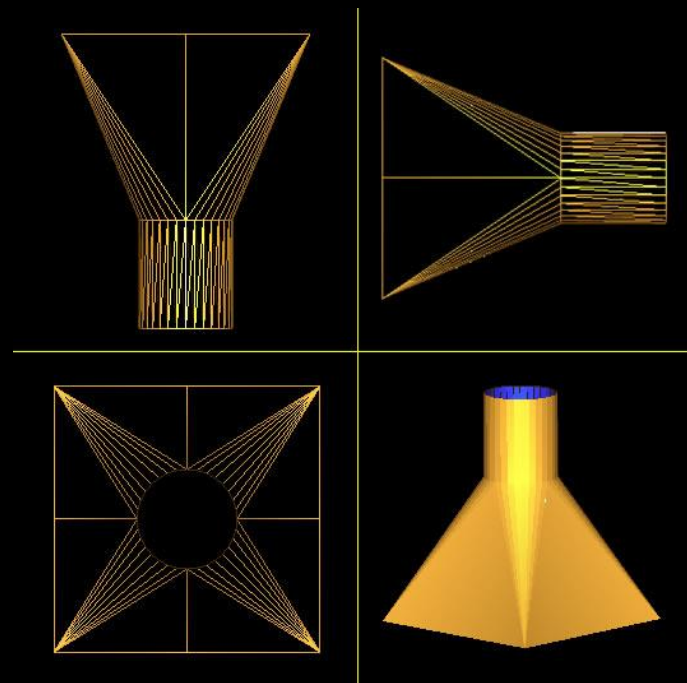
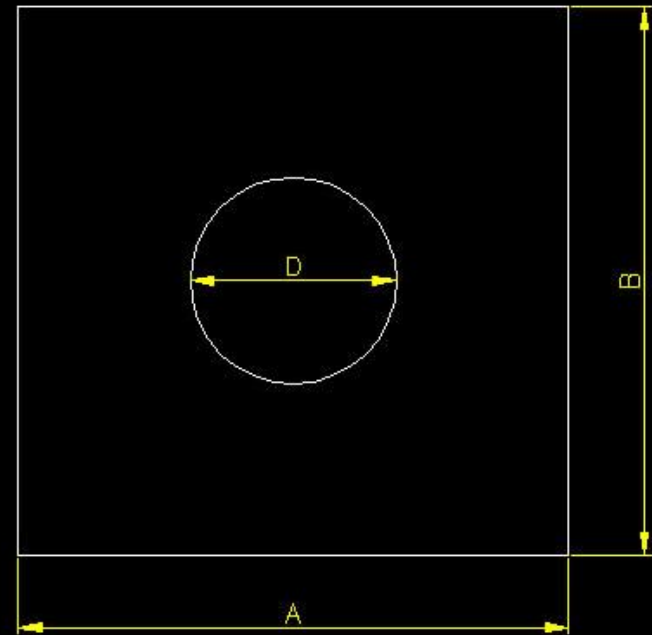
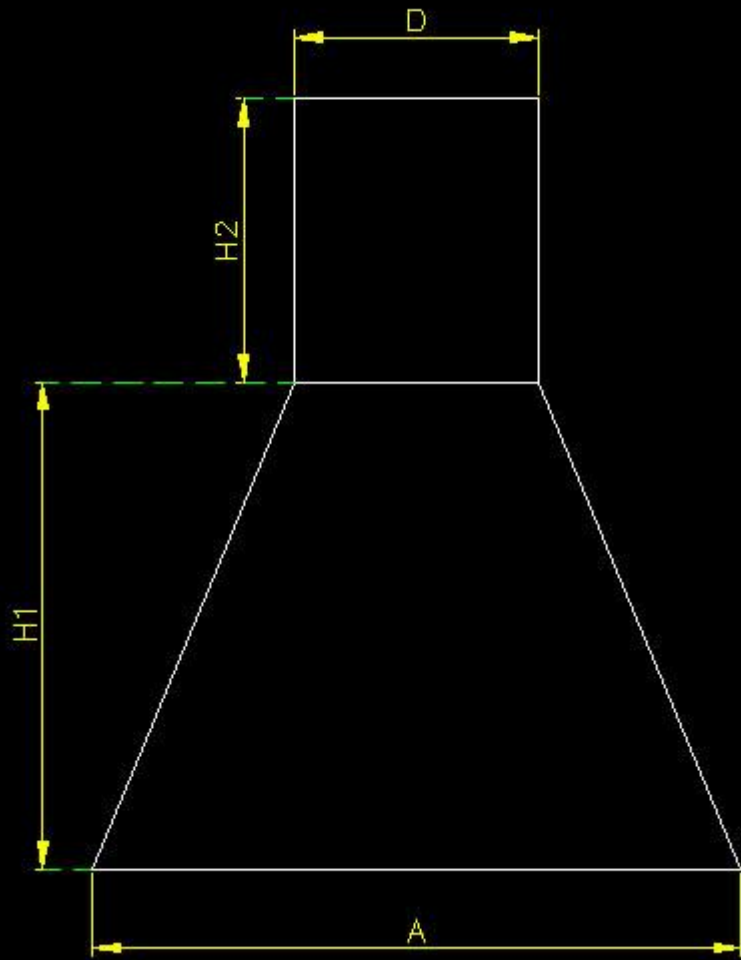
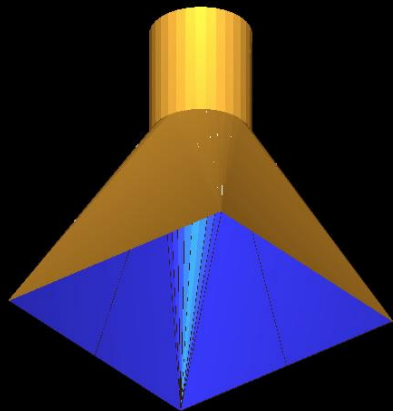
Sim

▼

e

12,7 (Aço)

...



084 - Pás de Rotor ☆

DP

D2

B1

B2

L1

L2

N

Qtd

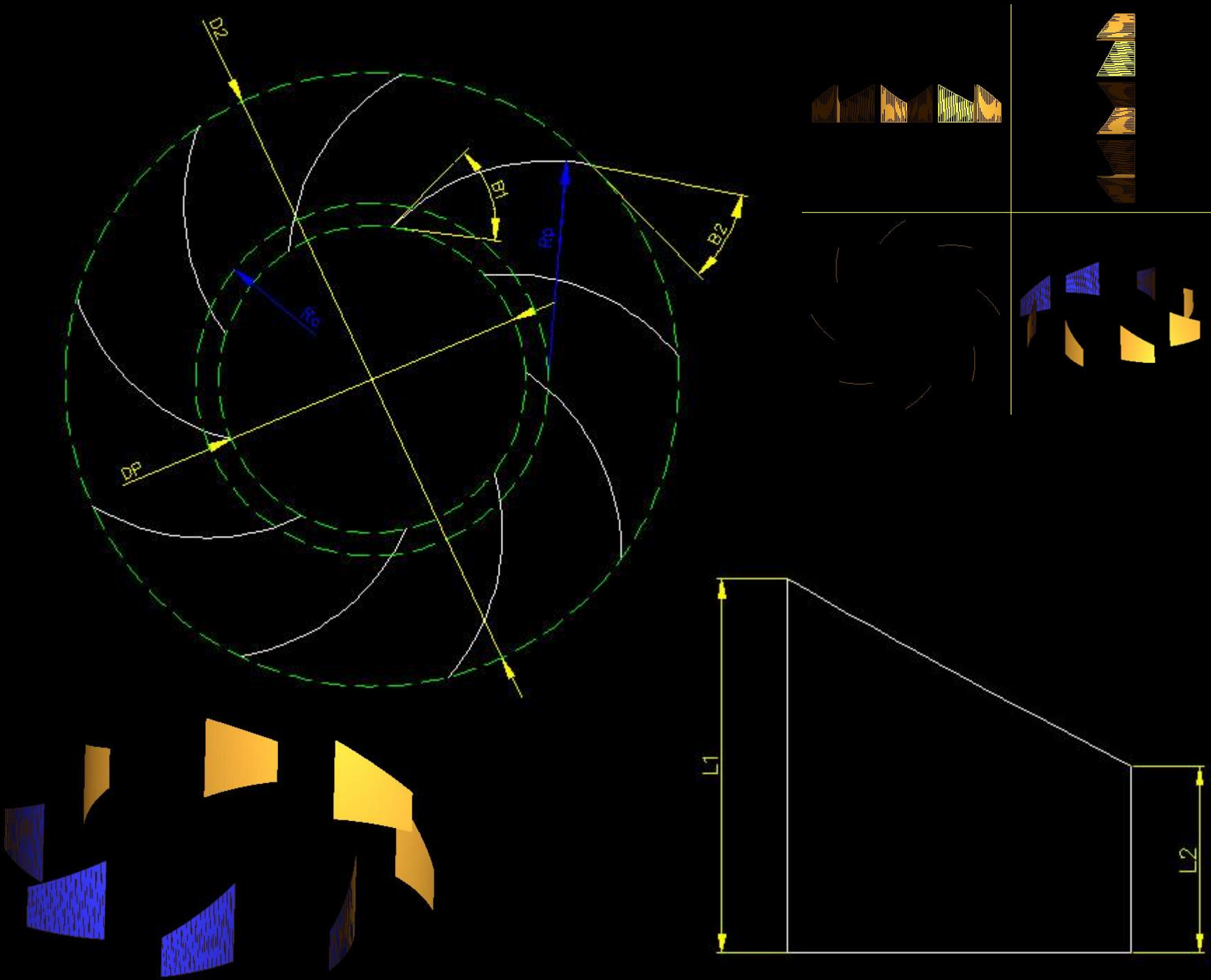
Calcular 3D

Sim

▼

e

...



086 - Flange Circular ☆

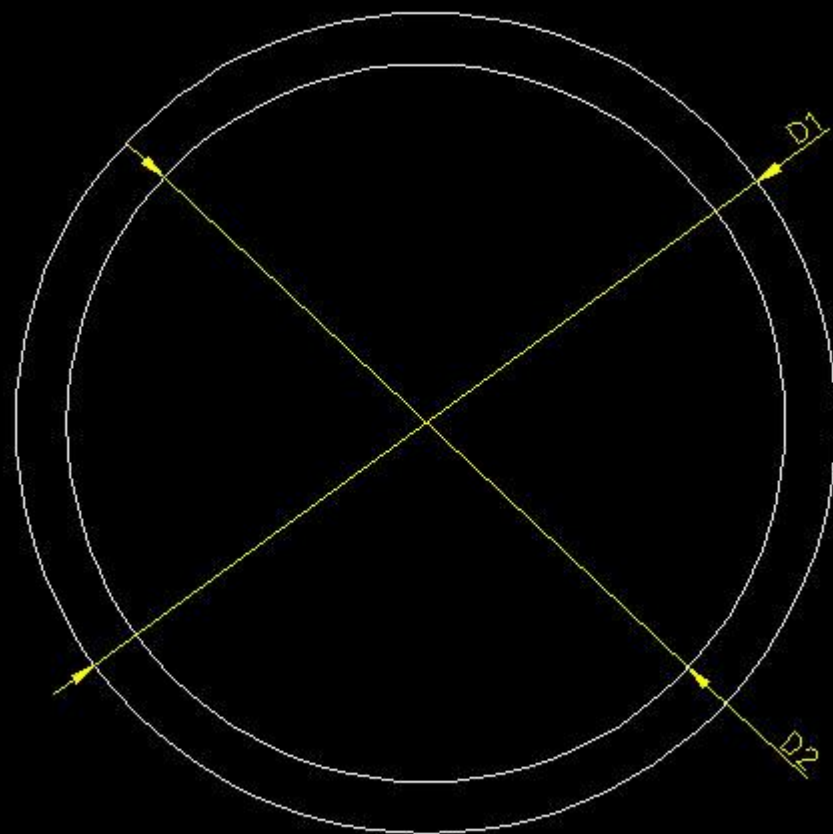
D1 500

D2 450

Qtd 1

Calcular 3D Sim ▼

e 10 (Aço) ...



087 - Chapa Retangular ☆

A

200

L

600

Qtyd

1

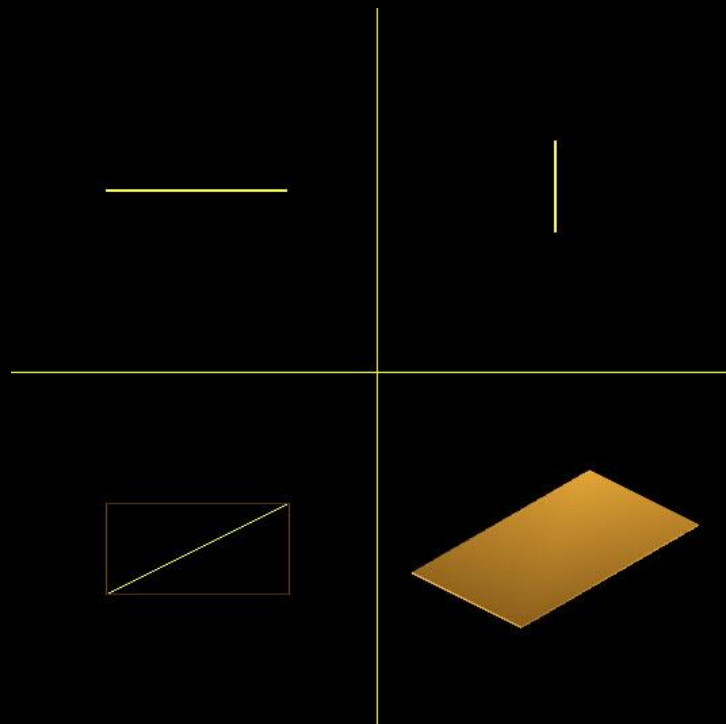
Calcular 3D

Sim ▼

e

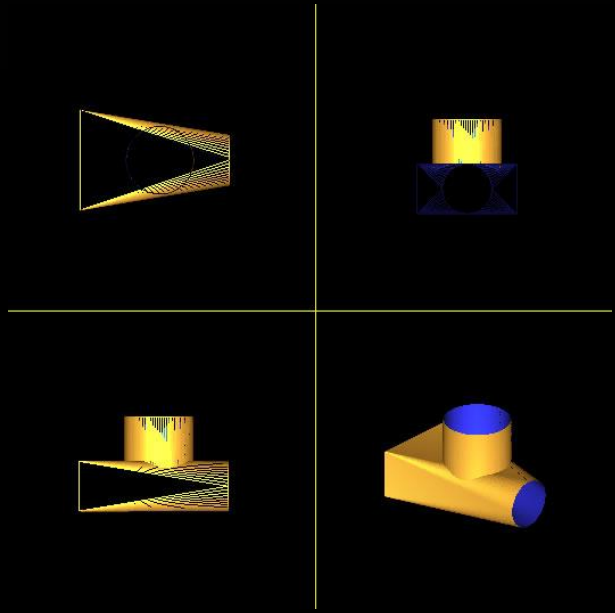
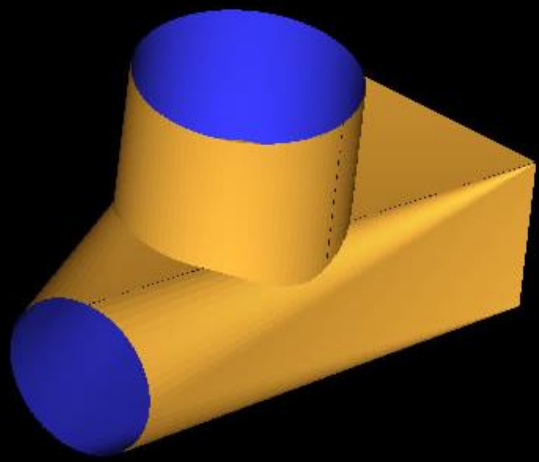
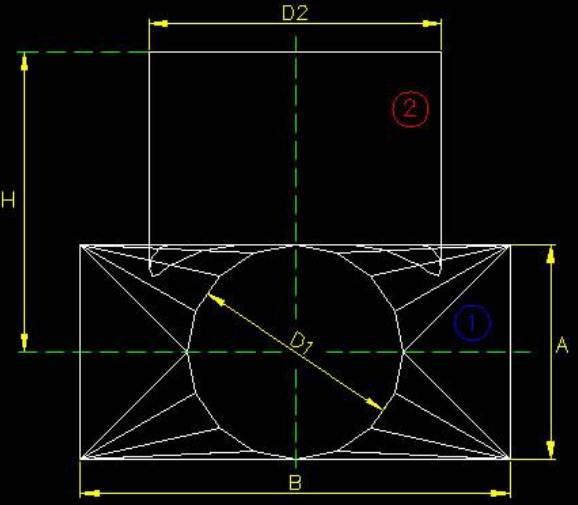
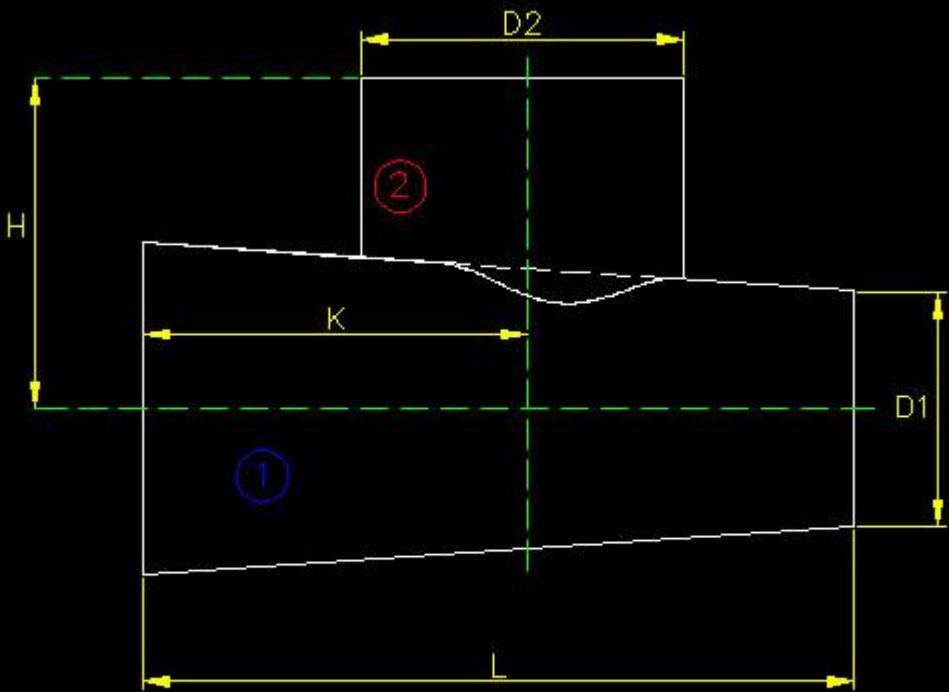
10 (Aço)

...



102 - Intersecção Cilindro/Transição 90°

D1	500
D2	680
A	500
B	1000
L	1500
H	700
K	800
Ndiv1	16 ...
Ndiv2	32 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	10 (Aço) ...



107 - Tronco Oval ☆

A

1000

B

600

A1

600

B1

400

H

700

N div

16

...

Qtd

1

Calcular 3D

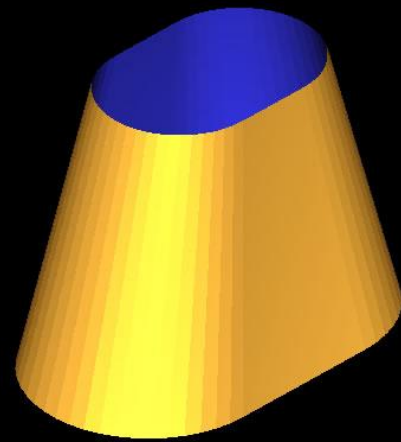
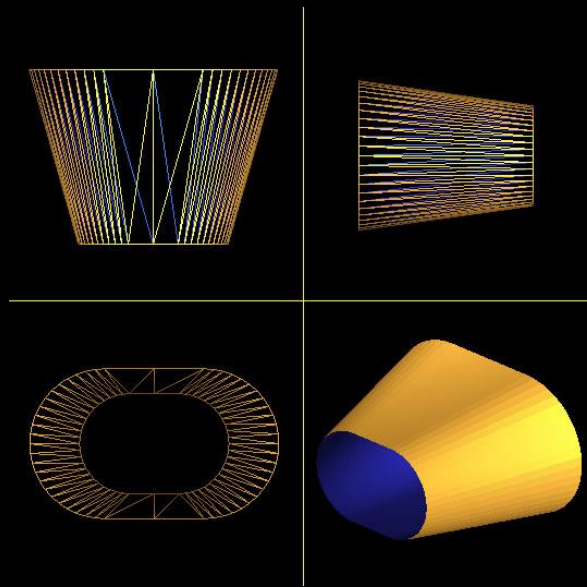
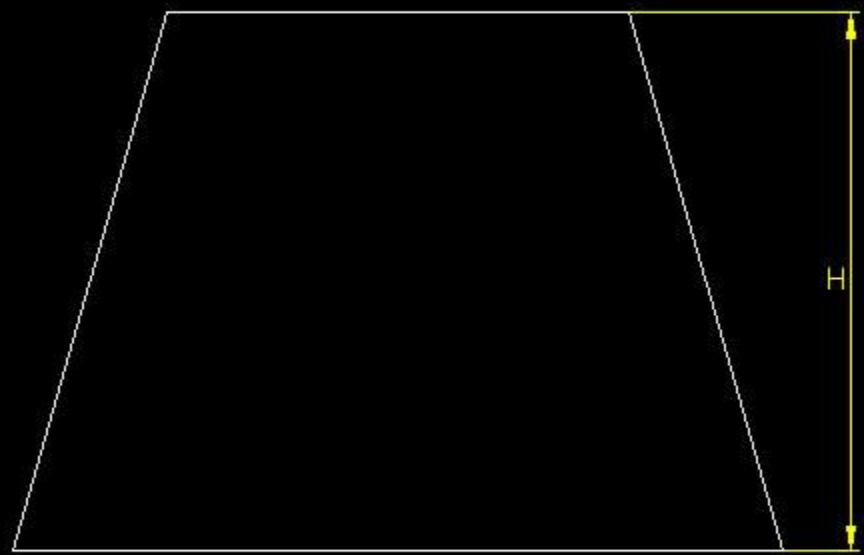
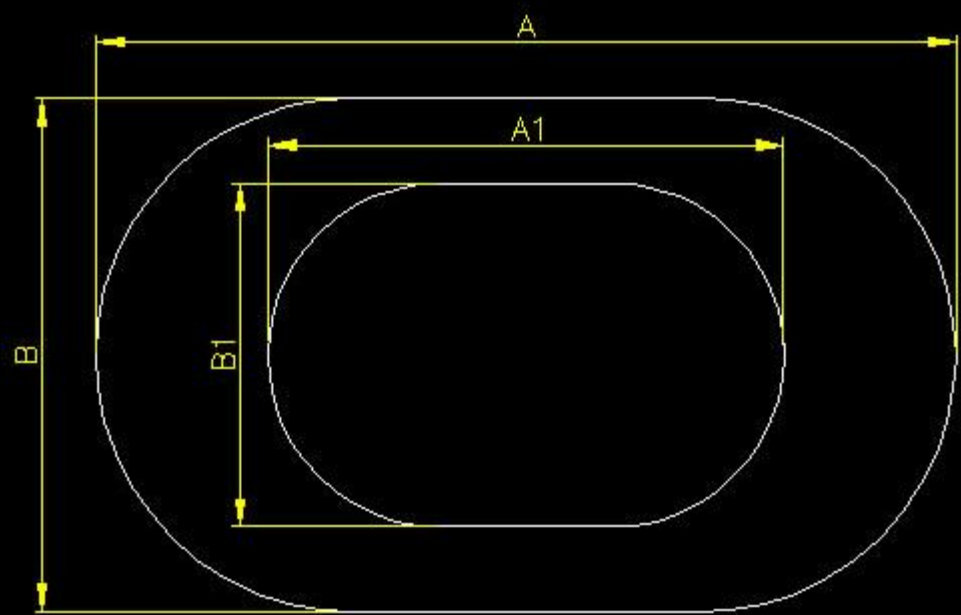
Sim

▼

e

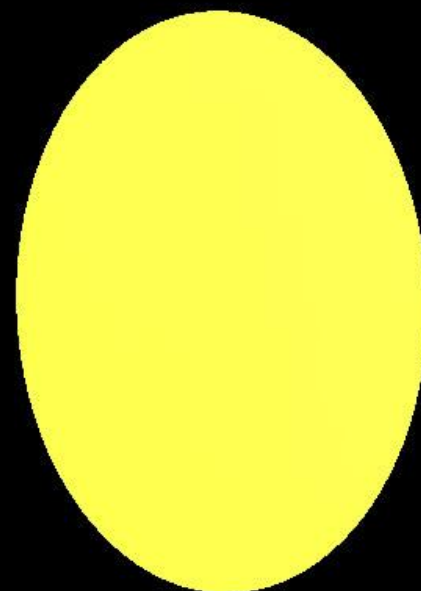
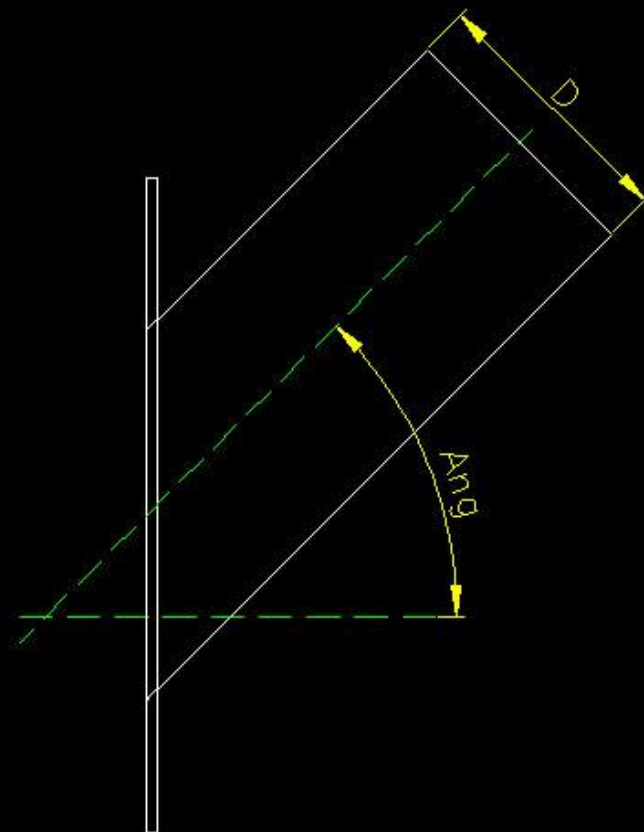
5 (Aço)

...



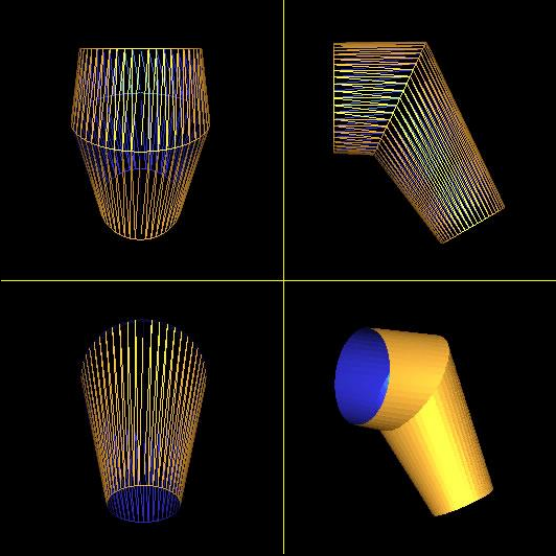
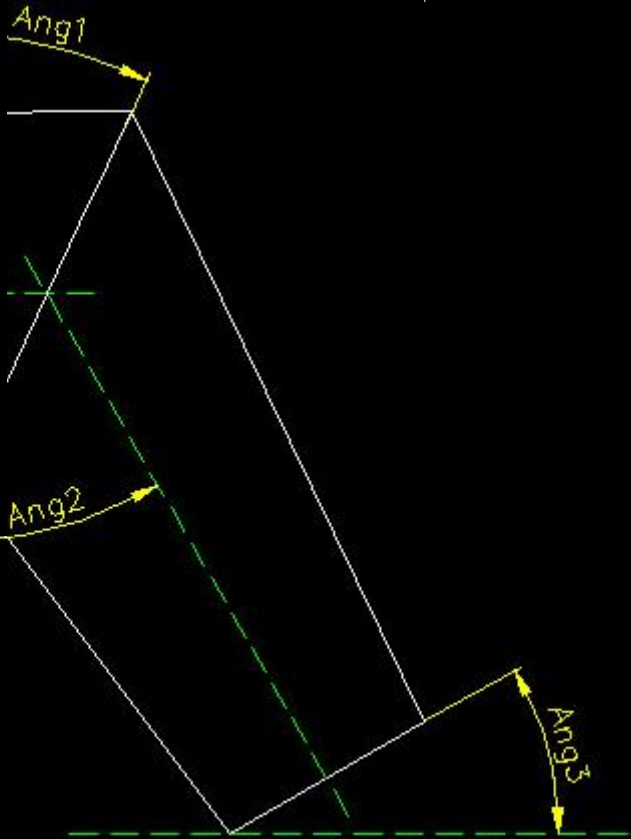
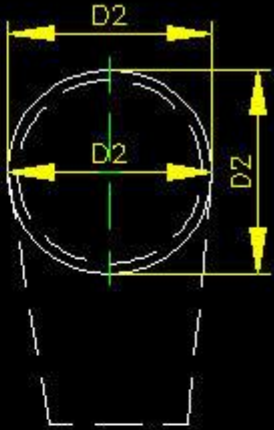
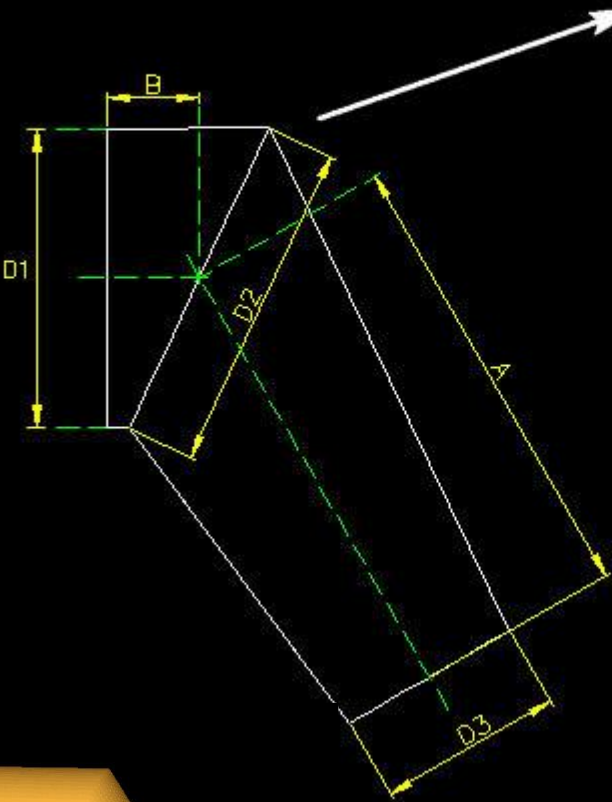
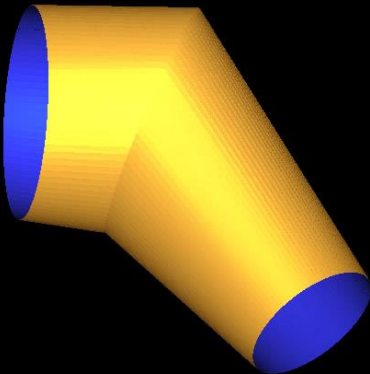
130 - Elipse ☆

D	200
Ang	45
Ndiv	16 ...
Qtd	1
Calcular 3D	Sim ▼
e	10 (Aço) ...



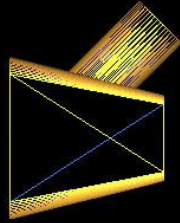
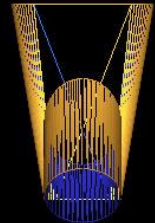
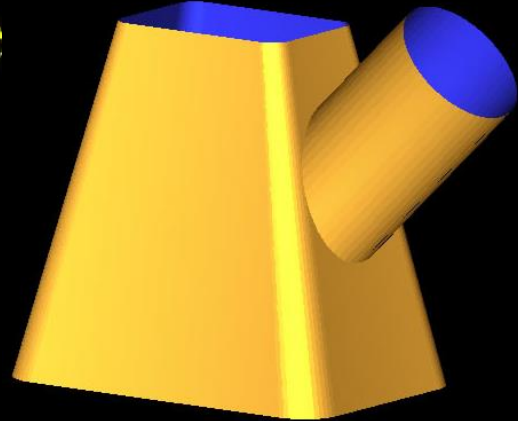
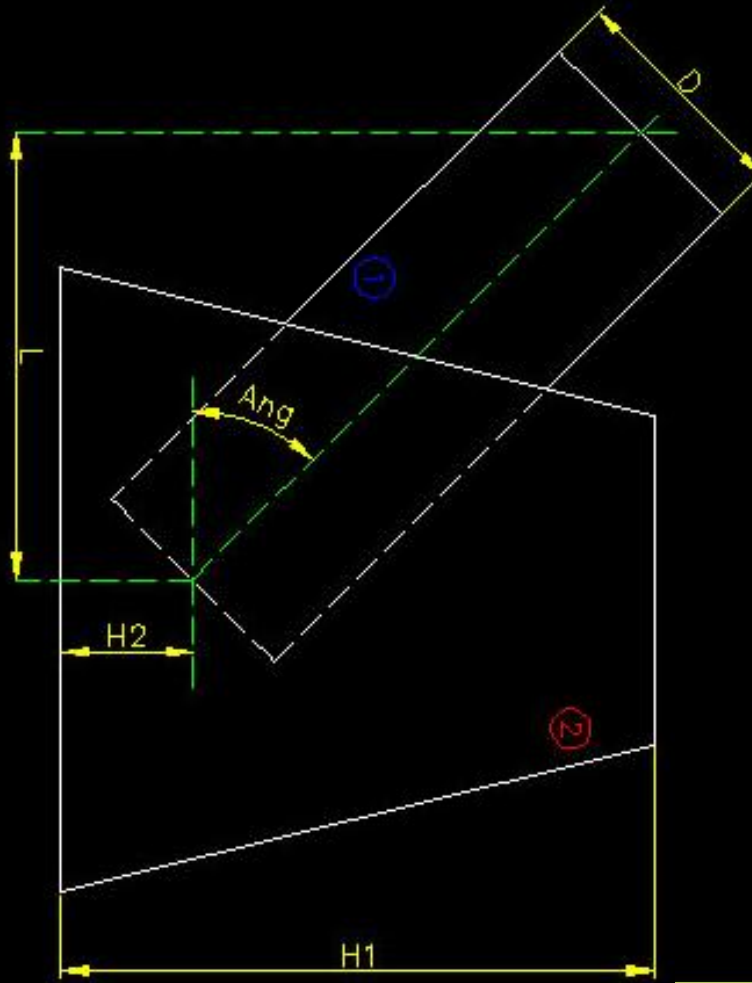
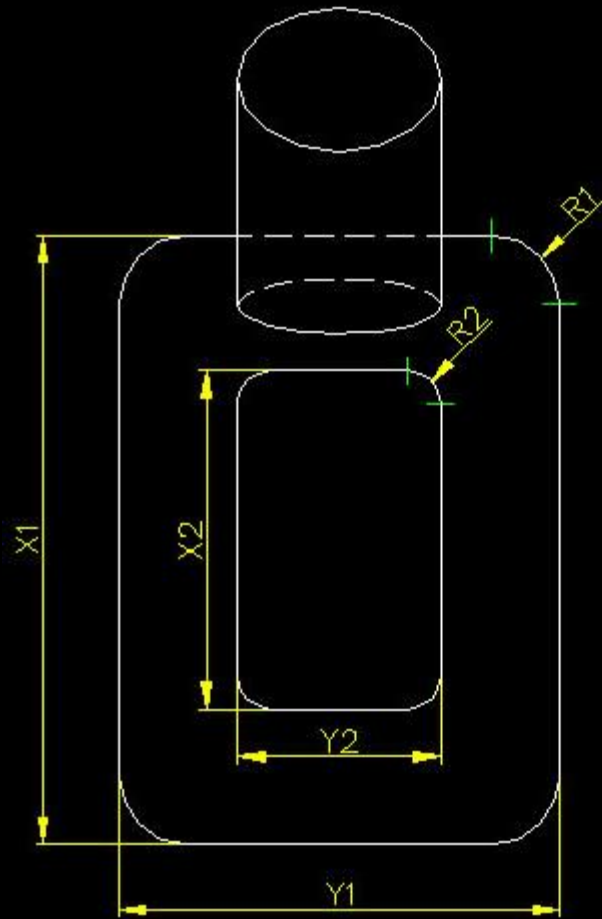
135 - Curva Direta Especial ☆

D1	300
D2	340
D3	200
A	400
B	180
Ang1	25
Ang2	30
Ang3	30
N div	16 ...
Qtd	1
Calcular 3D	Sim
e	4,8 (Aço) ...



136 - Intersecção Cil. em Ret/Ret cantos Arredondados

X1	1000
X2	600
Y1	600
Y2	400
R1	100
R2	50
H1	850
L	680
H2	100
D	350
Ang	45
Ndiv1	16 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	7 (Aço) ...
e2	7 (Aço) ...



137 - Pórtico Especial ☆

D 330

D1 200

A 400

L1 250

L2 365

Ang1 25

Ang2 30

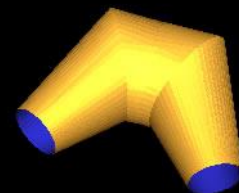
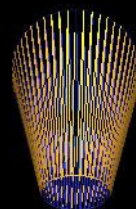
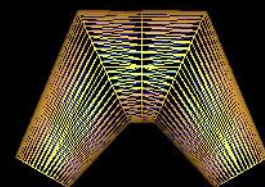
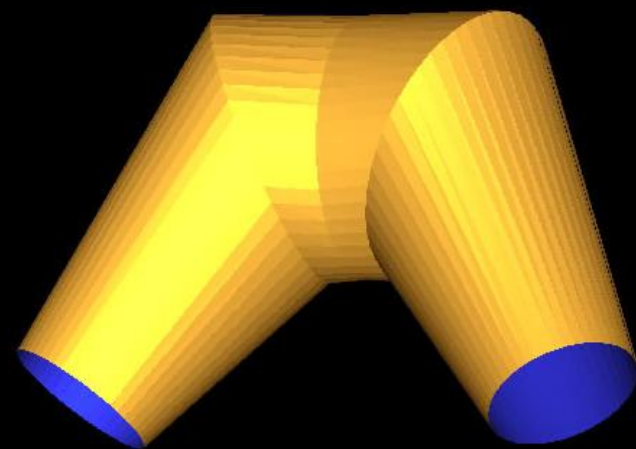
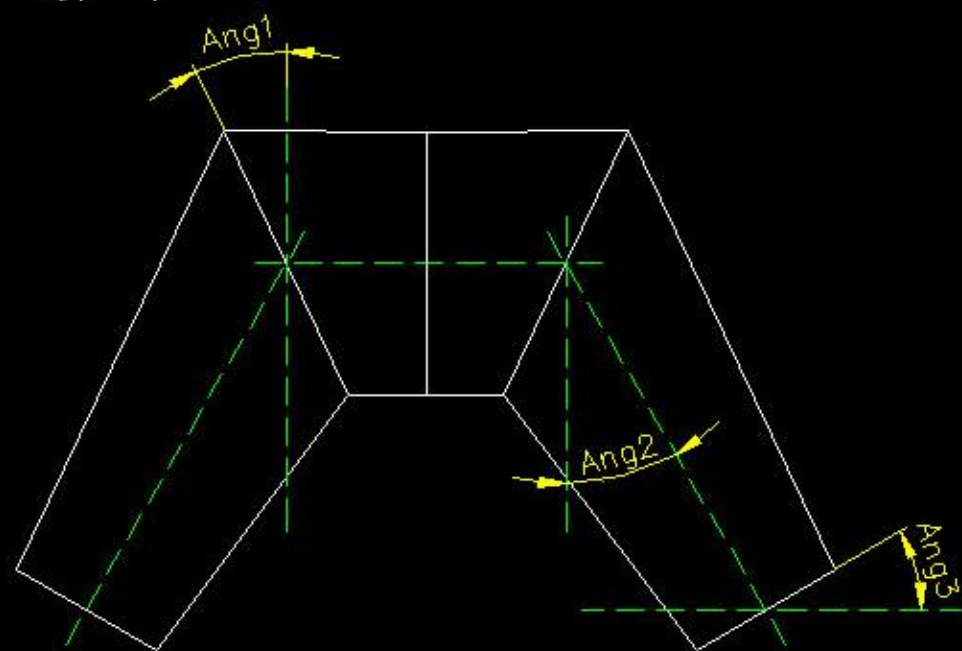
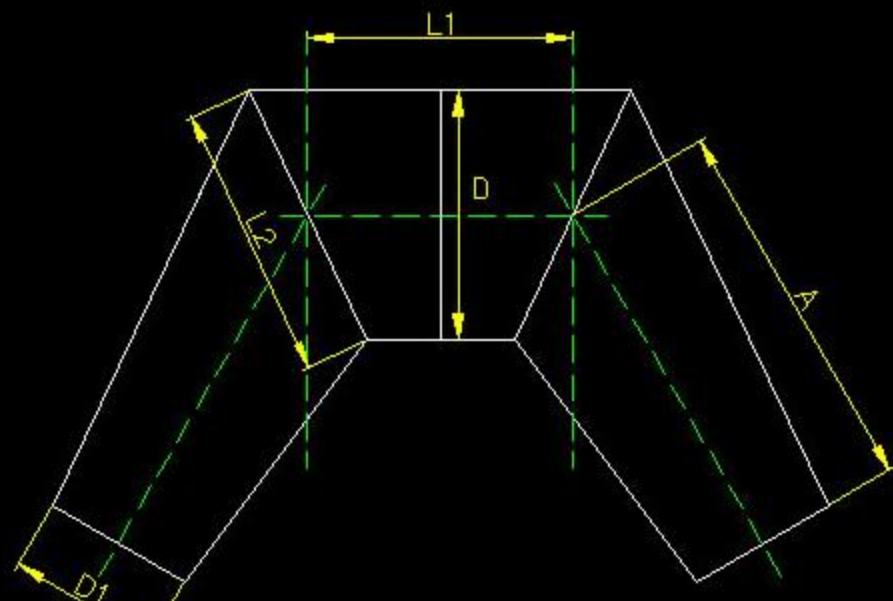
Ang3 30

N div 16

Qtd 1

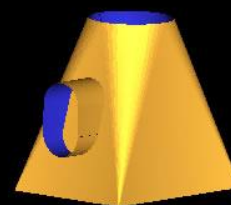
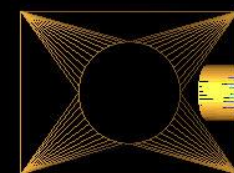
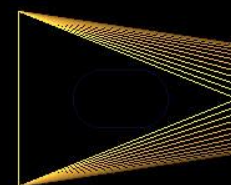
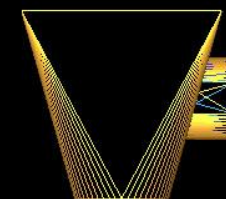
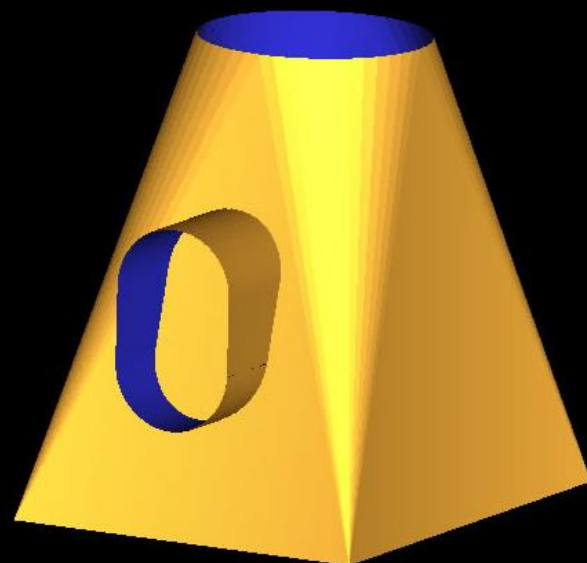
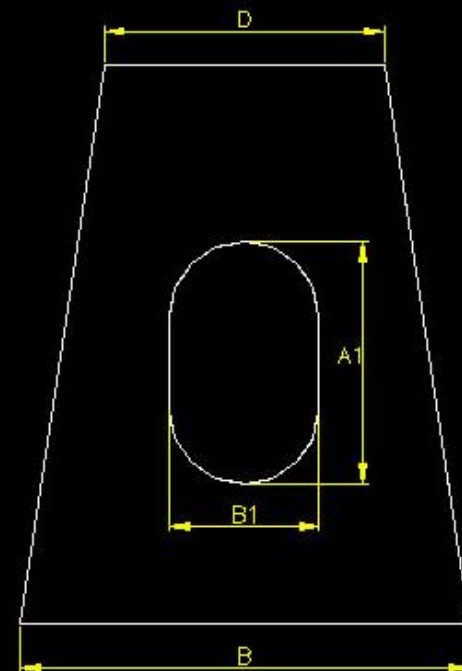
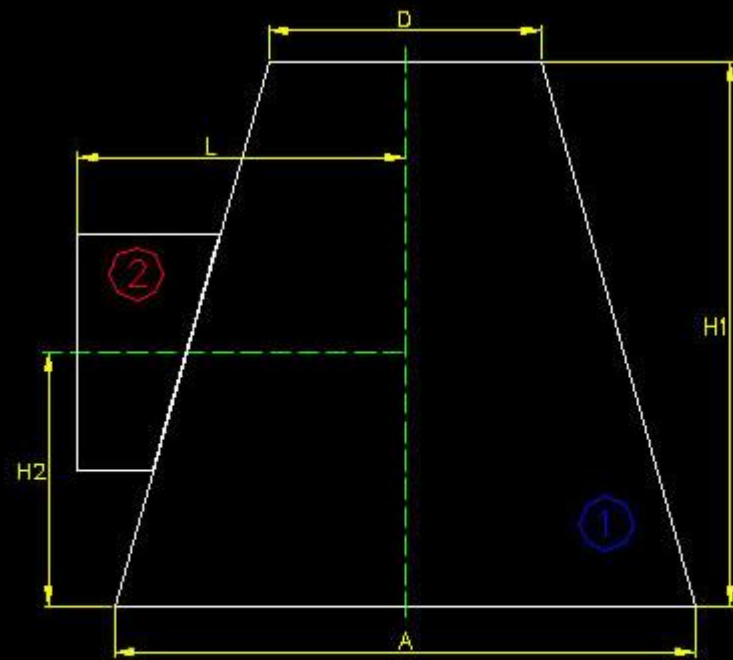
Calcular 3D Sim

e 4,8 (Aço)



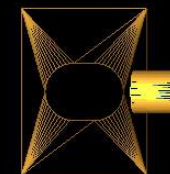
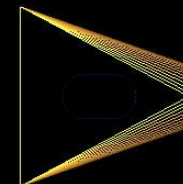
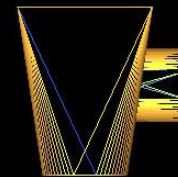
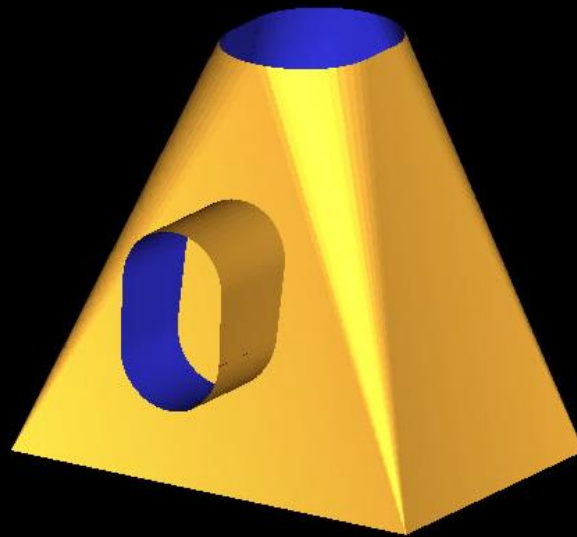
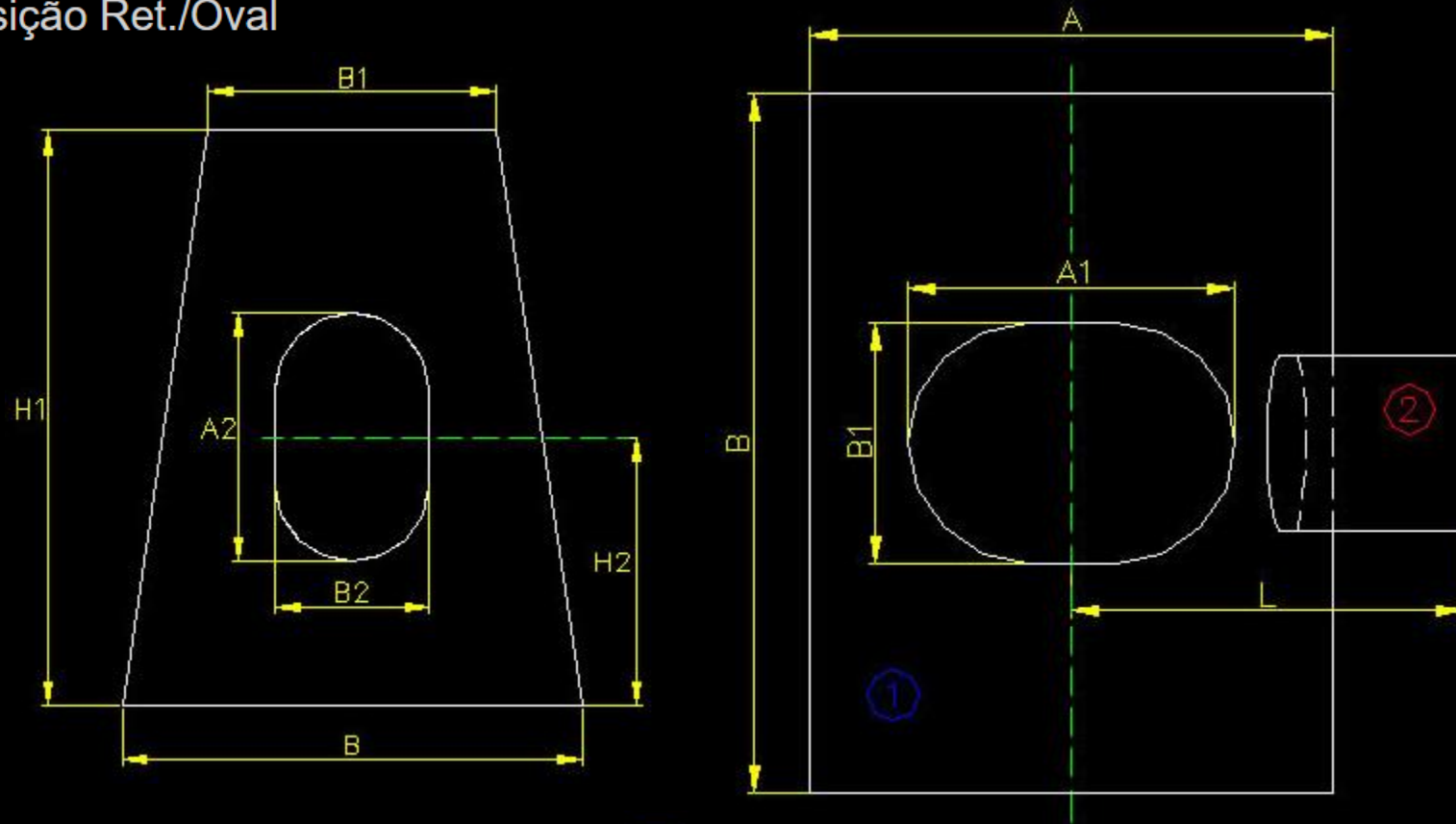
138 - Int. Tubo Oval em Transição Ret./Red.

D	750
H1	1500
A	1600
L	900
H2	700
B	1200
A1	650
B1	400
Ndiv1	16 ...
Ndiv2	16 ...
Qty	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	4,8 (Aço) ...
e2	4,8 (Aço) ...



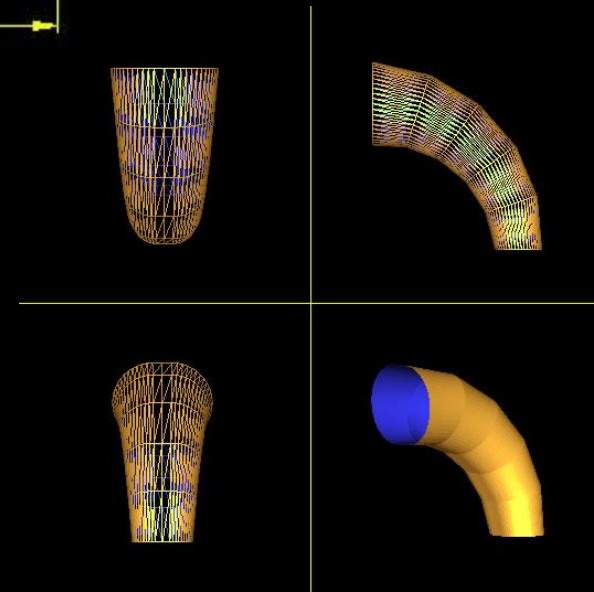
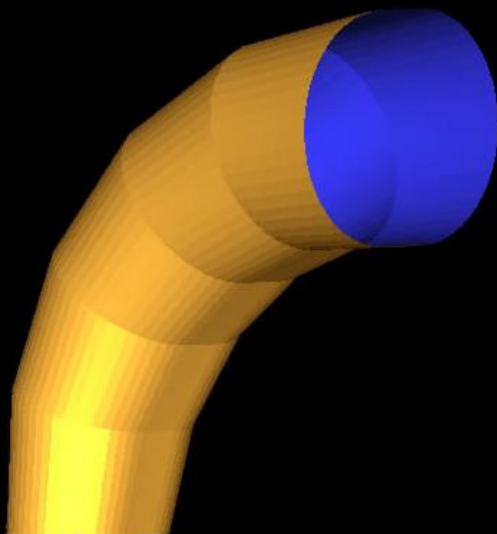
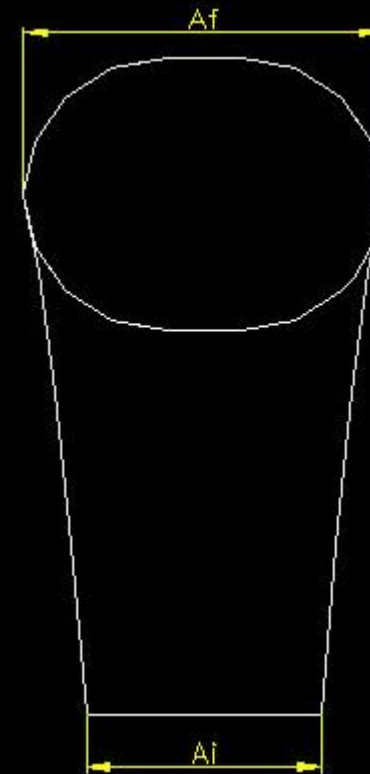
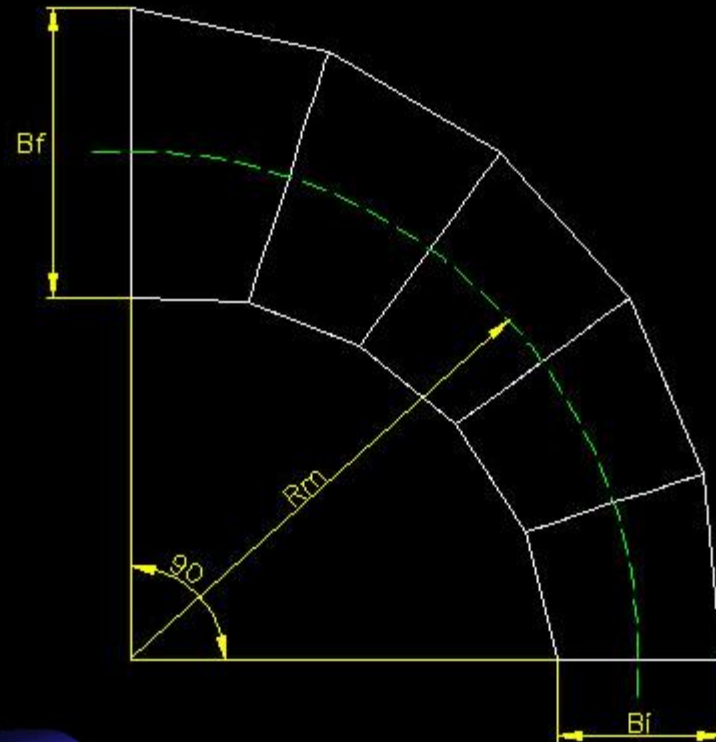
139 - Int. Tubo Oval em Transição Ret./Oval

B1	550
H1	1500
A2	650
B2	400
H2	700
B	1600
A	1200
A1	750
L	900
Ndiv1	16 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	4,8 (Aço) ...
e2	4,8 (Aço) ...



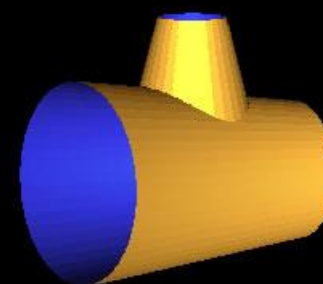
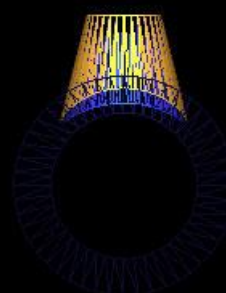
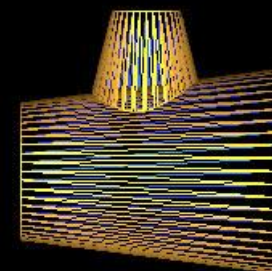
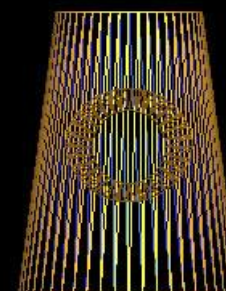
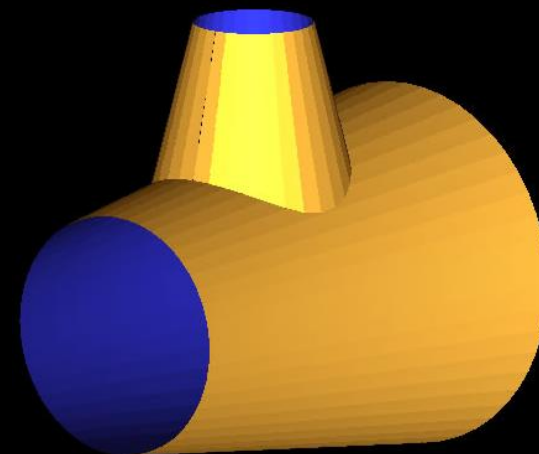
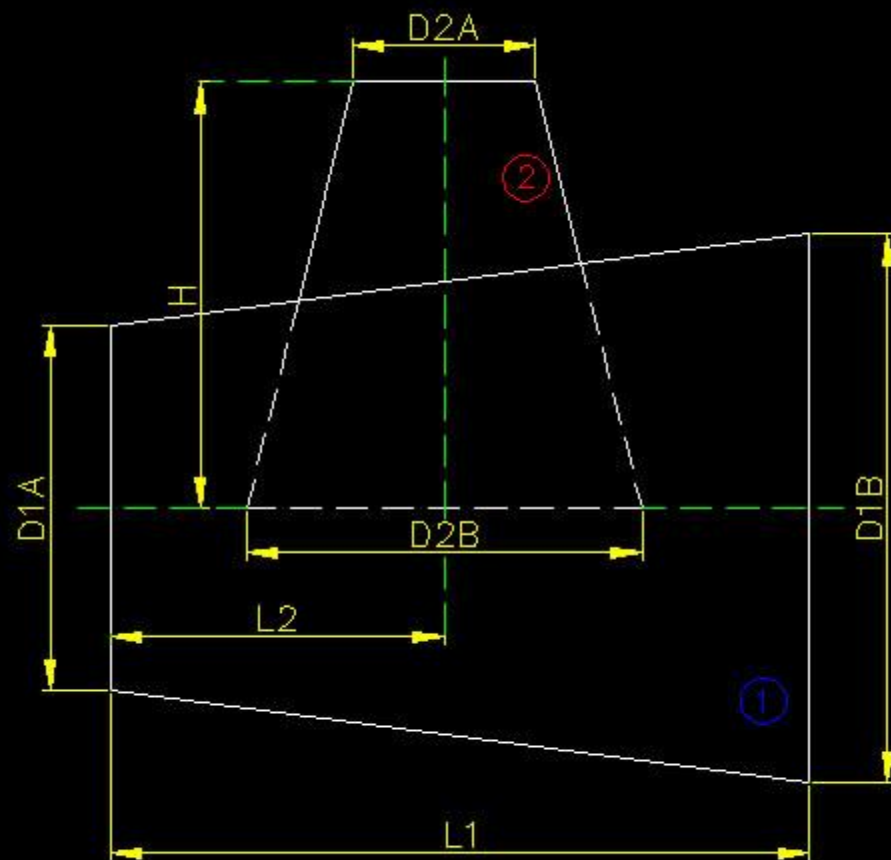
140 - Curva de gomos Oval 90° com Redução ☆

Bf	800
Bi	450
Rm	1400
Ai	600
Af	1000
N div	16 ...
Qtd	1
Calcular 3D	Sim
e	12,7 (Aço) ...



141 - Intersecção de Cone/Cone Alinhada

D1A	600
D1B	900
D2A	300
D2B	650
H	700
L1	1150
L2	550
Ndiv1	32 ...
Ndiv2	32 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



143 - Espiral ☆

A

100

B

350

Qtd

1

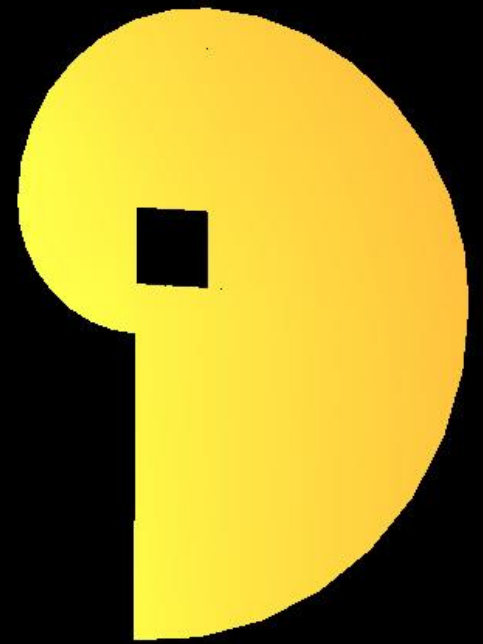
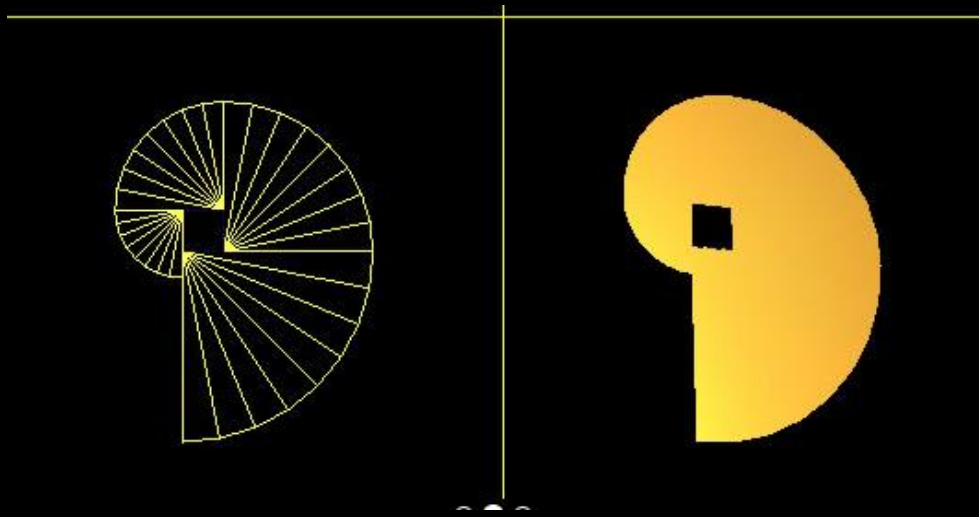
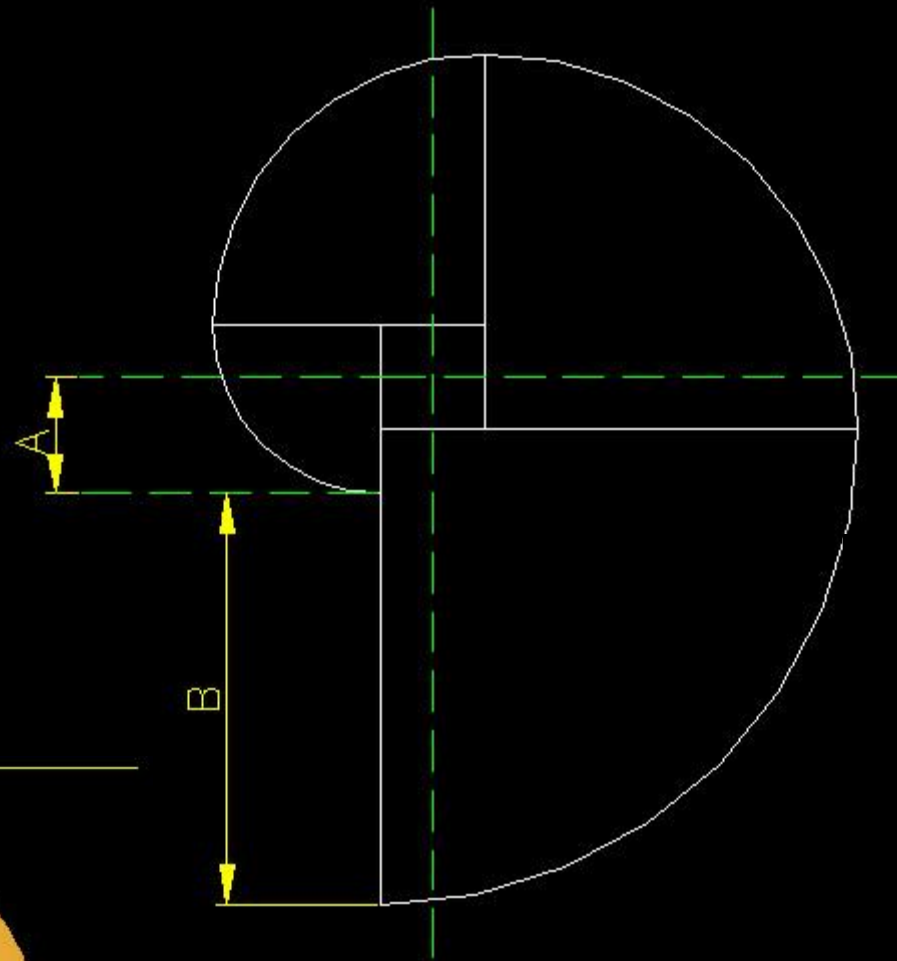
Calcular 3D

Sim

e

1 (Aço)

...



144 - Curva Cônica Exc. Genérica - Re

Re 2000

Ang 80

Di 600

Df 1000

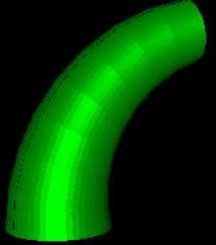
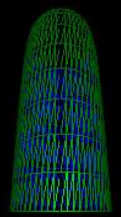
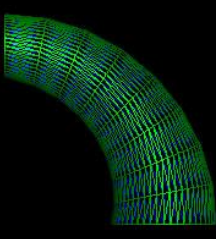
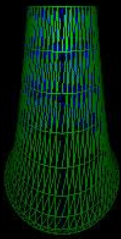
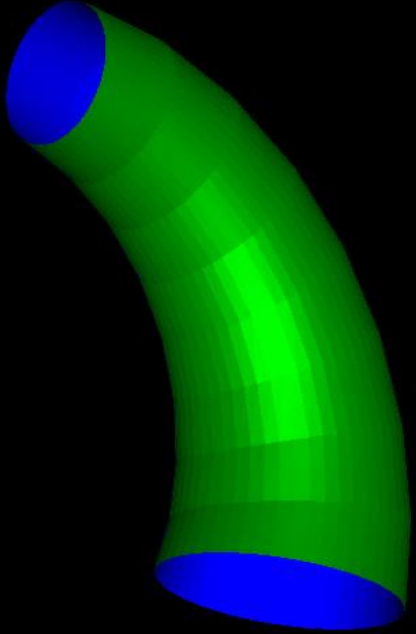
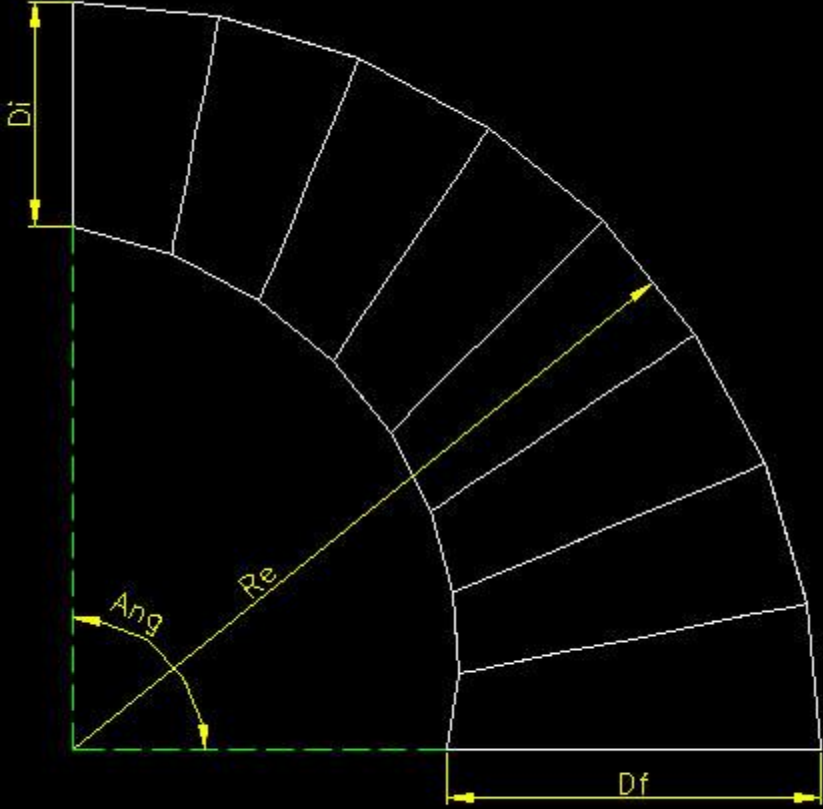
Ng 8

N div 32

Qtd 1

Calcular 3D Sim

e 12,7 (Aço)



145 - Tronco de Cone Exc. Apoiado

D1

1000

D2

500

H

875

N div

32

...

Qty

1

Calcular 3D

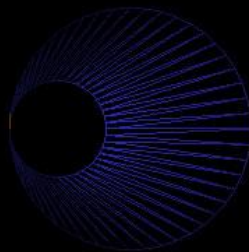
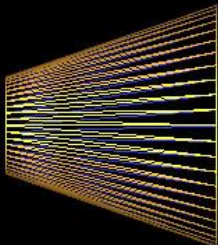
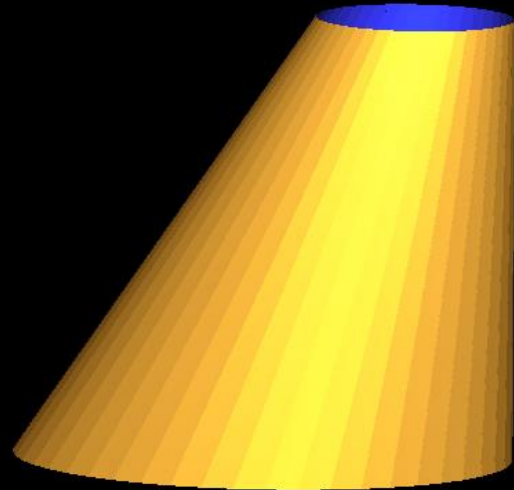
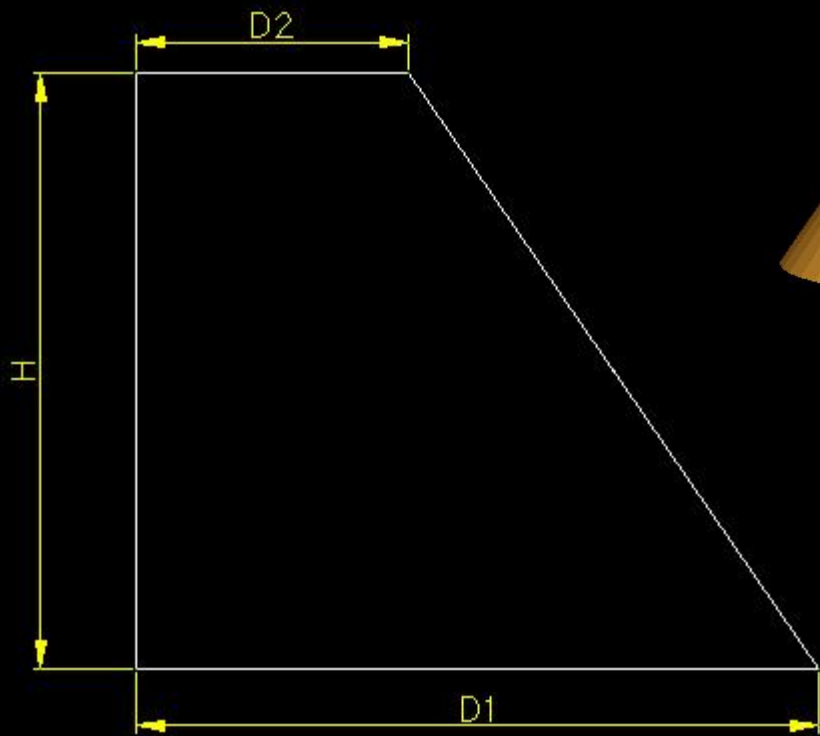
Sim

▼

e

12,7 (Aço)

...



147 - Tubo de Sucção - Rm ☆

B 2000

A 1000

D 800

Rm 2400

R 35

Ang 90

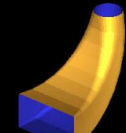
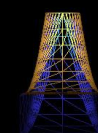
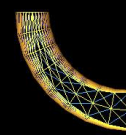
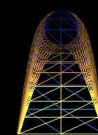
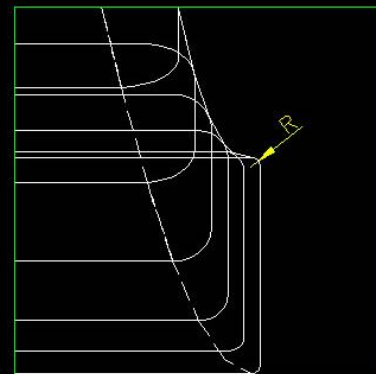
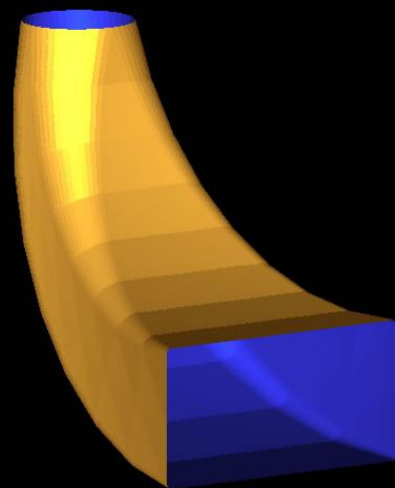
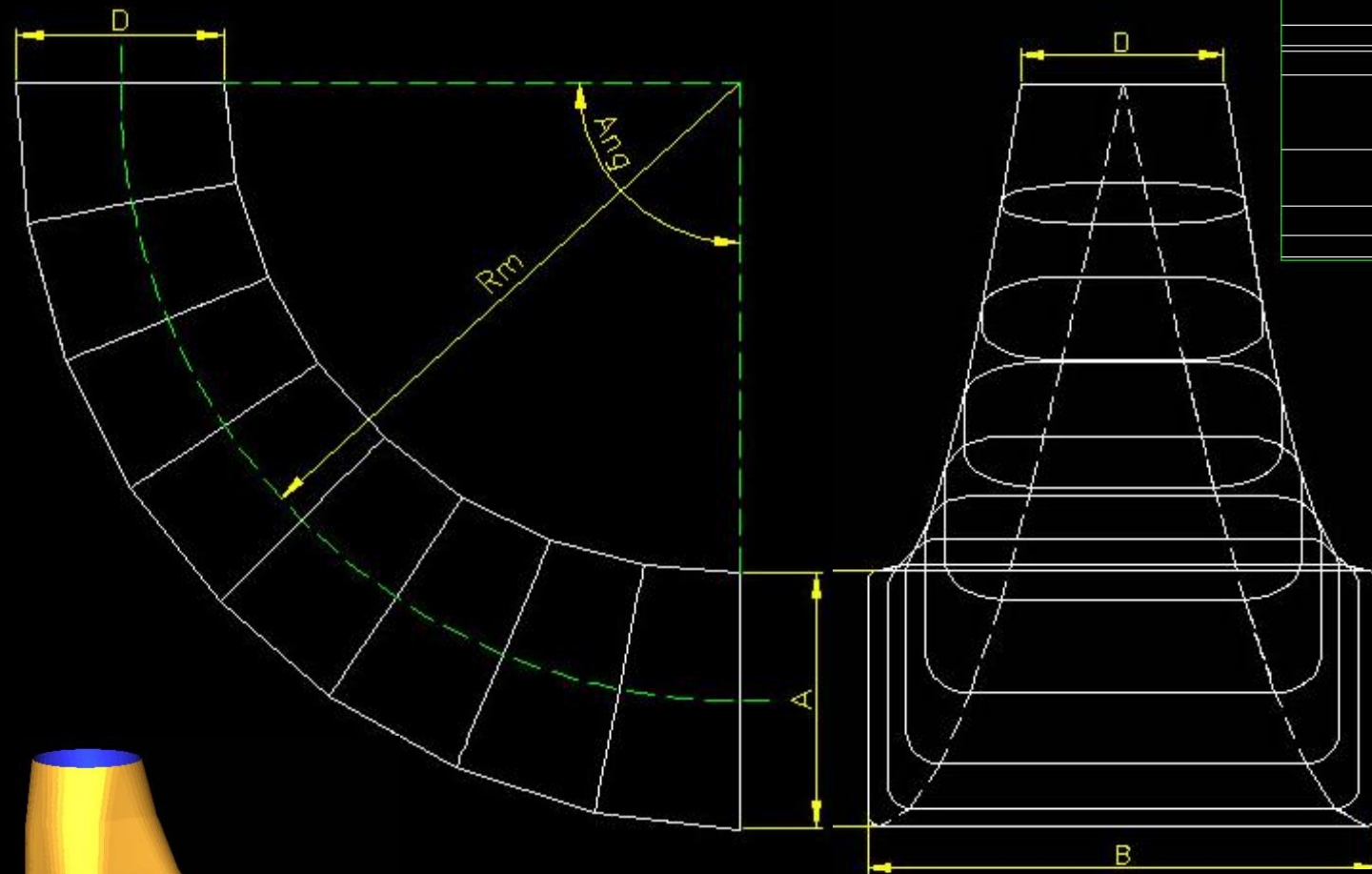
Ng 8

Ndiv 32

Qtd 1

Calcular 3D Sim

e 12,7 (Aço)



148 - Tubo de Sucção Raio variável

B 1000

A 550

D 500

H 1200

Zc 1400

R 35

Ang 90

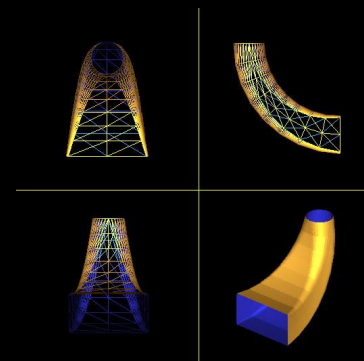
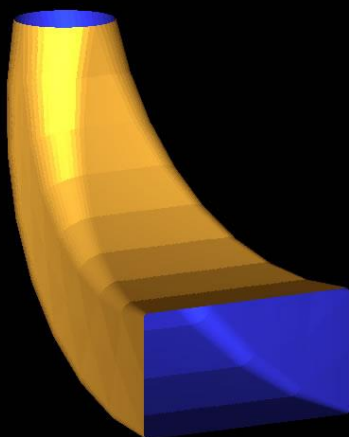
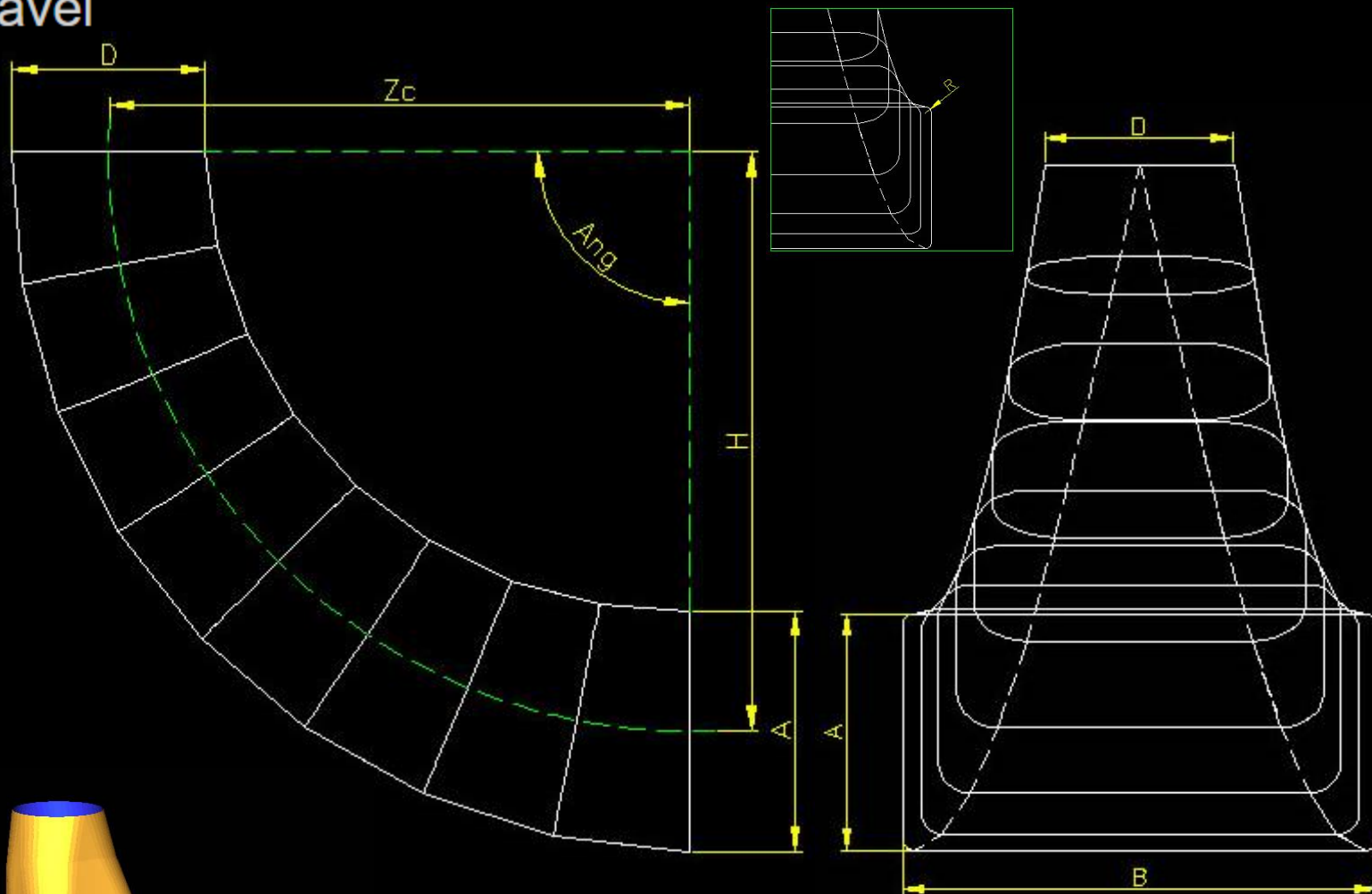
Ng 8

Ndiv 16 ...

Qtd 1

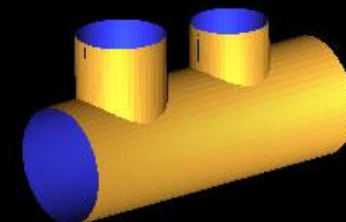
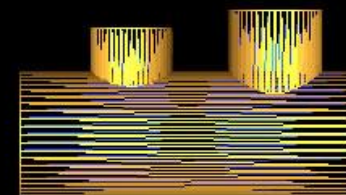
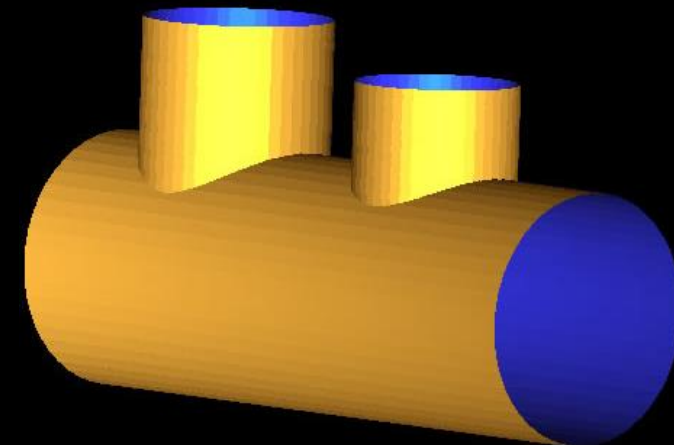
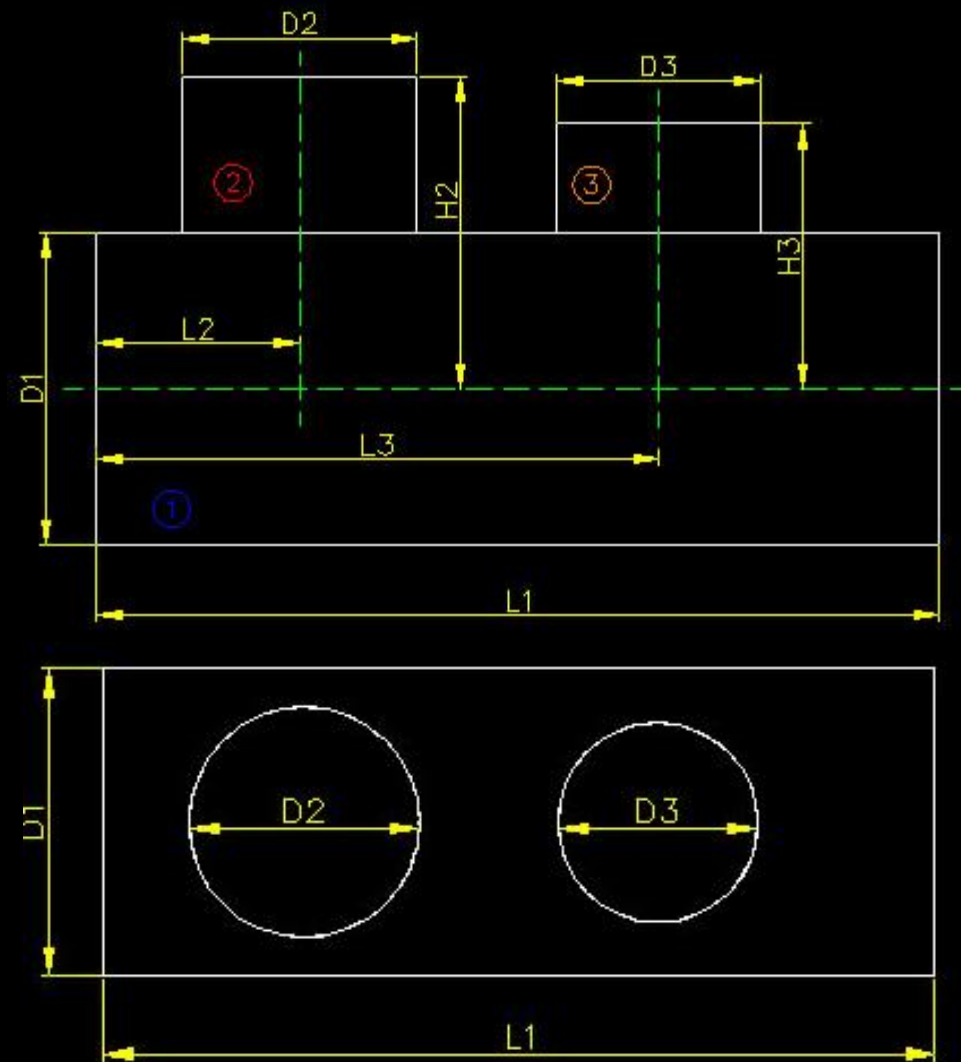
Calcular 3D Sim ▼

e 12,7 (Aço) ...



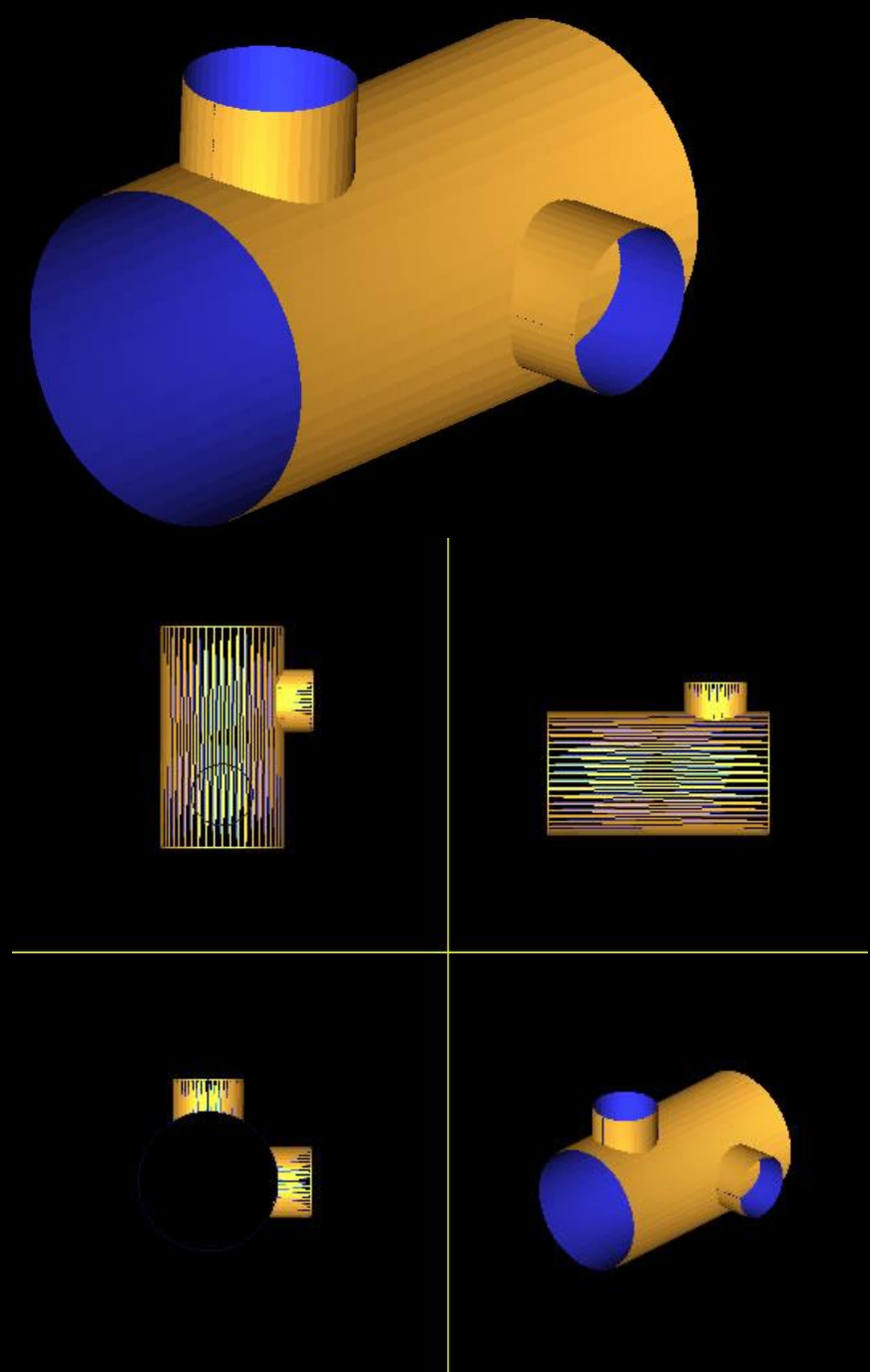
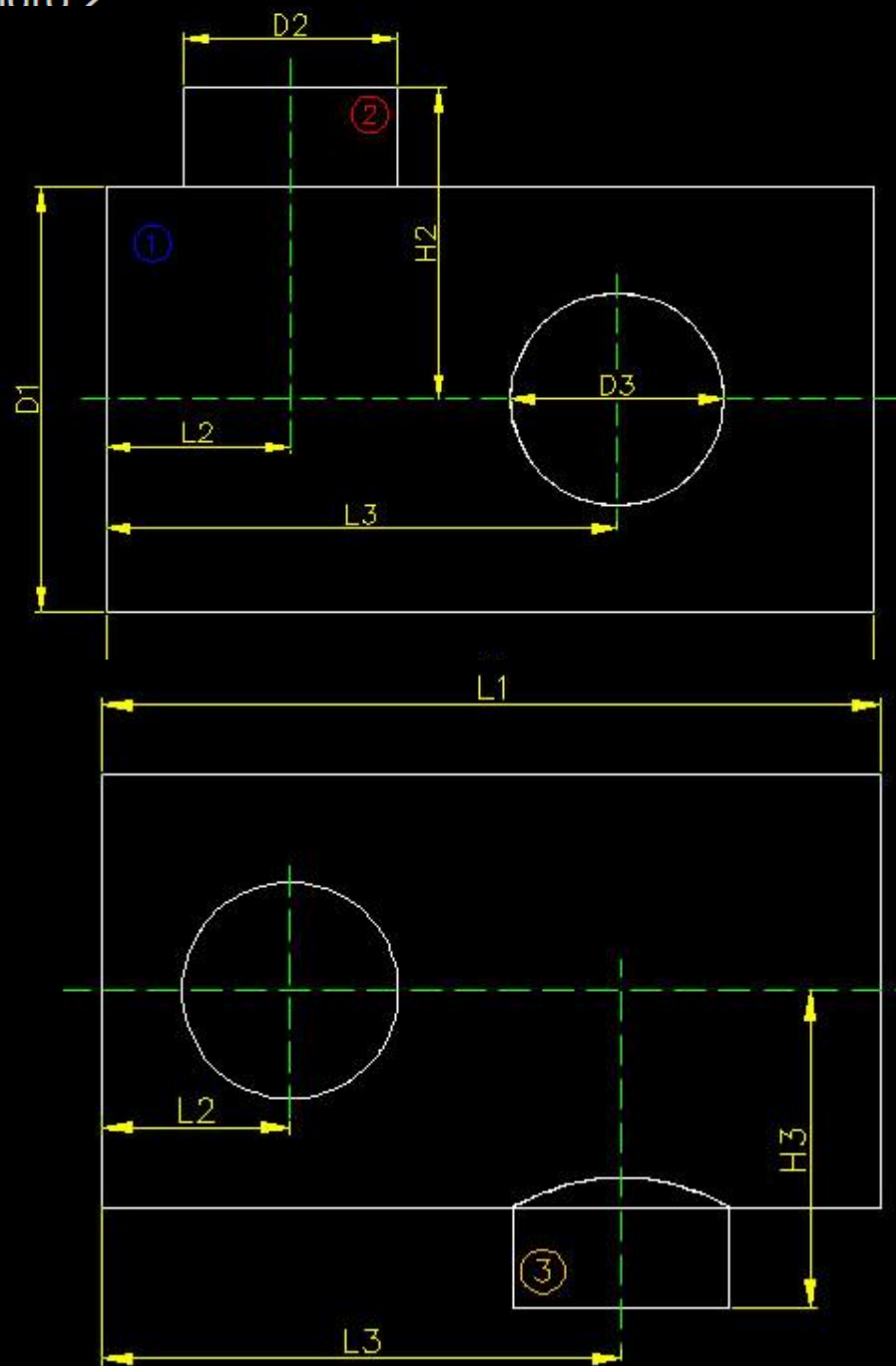
149 - Dupla Intersecção em Cilindro

D1	1000
D2	750
D3	650
L1	2700
L2	650
L3	1800
H2	1000
H3	850
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



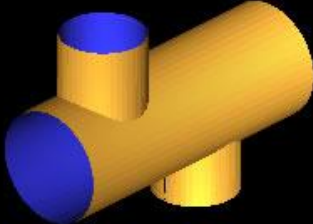
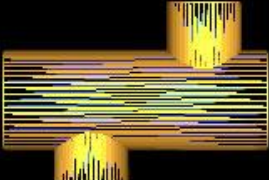
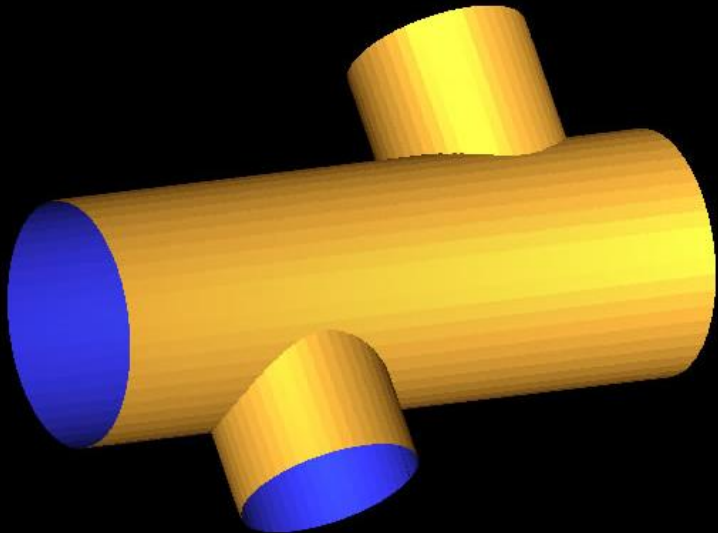
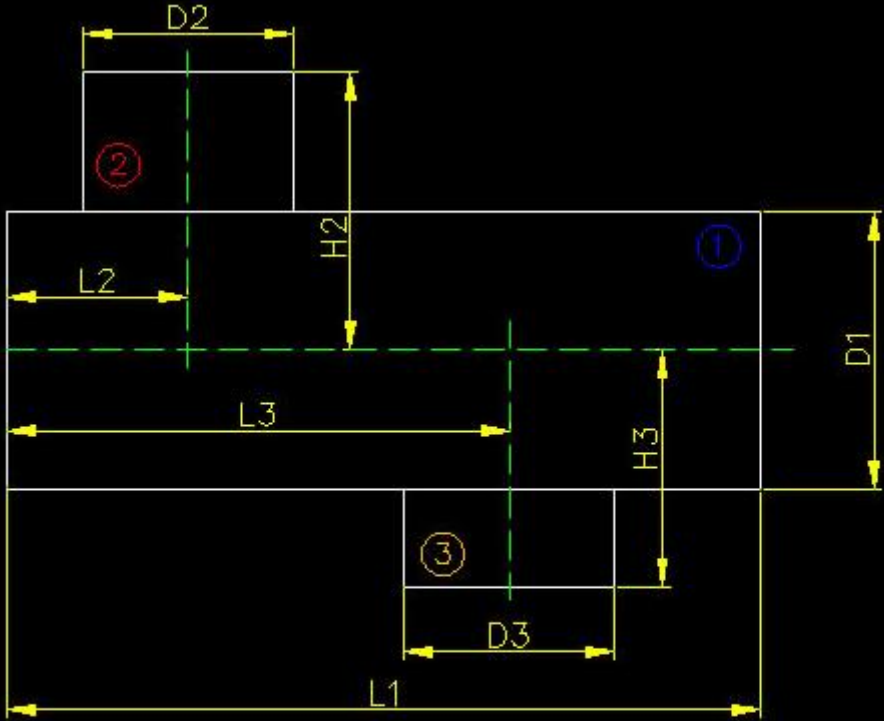
152 - Dupla Intersecção em Cilindro 2

D1	1500
D2	750
D3	750
L1	2700
L2	650
L3	1800
H2	1100
H3	1100
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



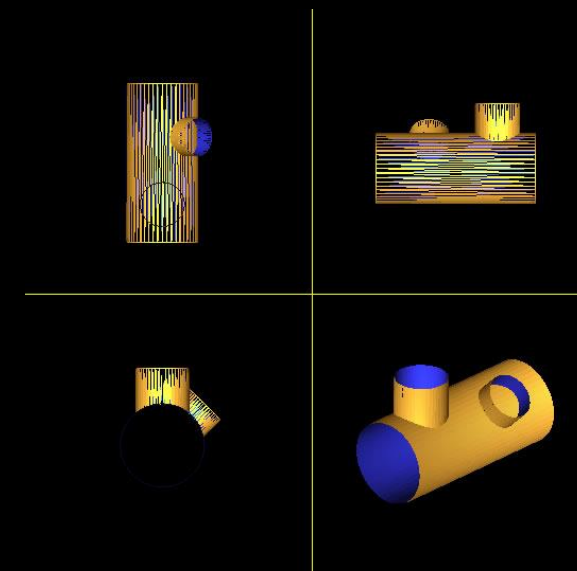
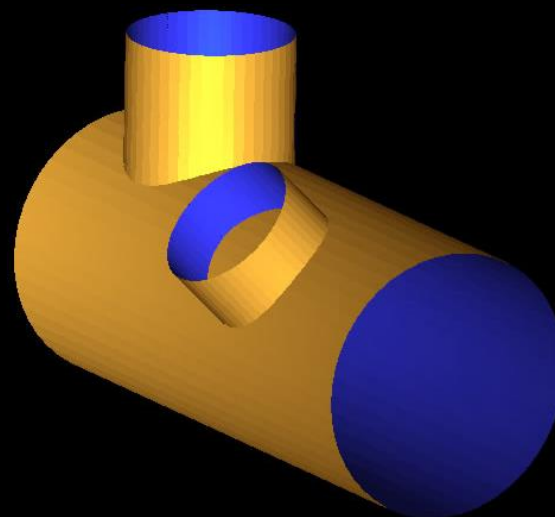
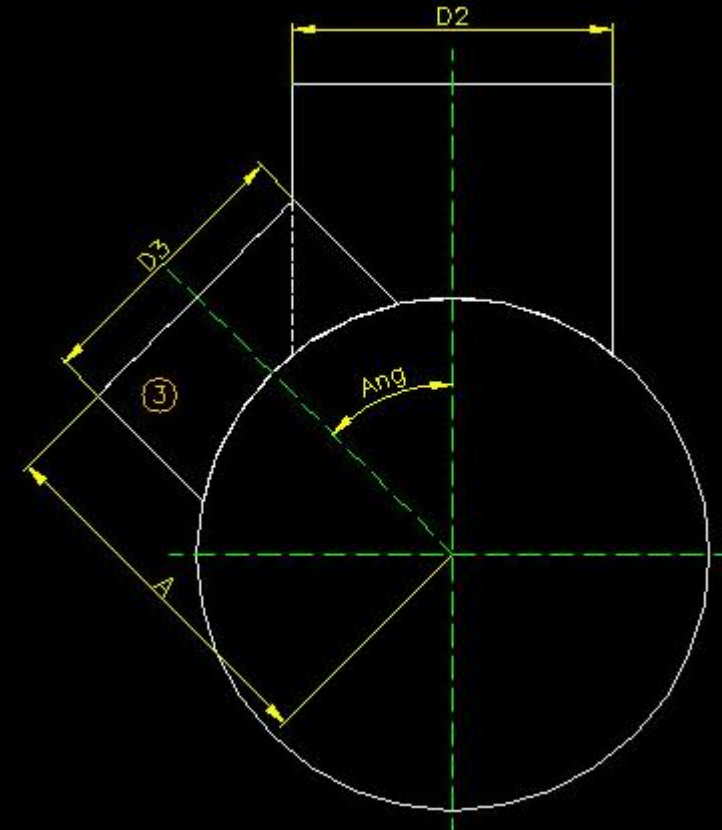
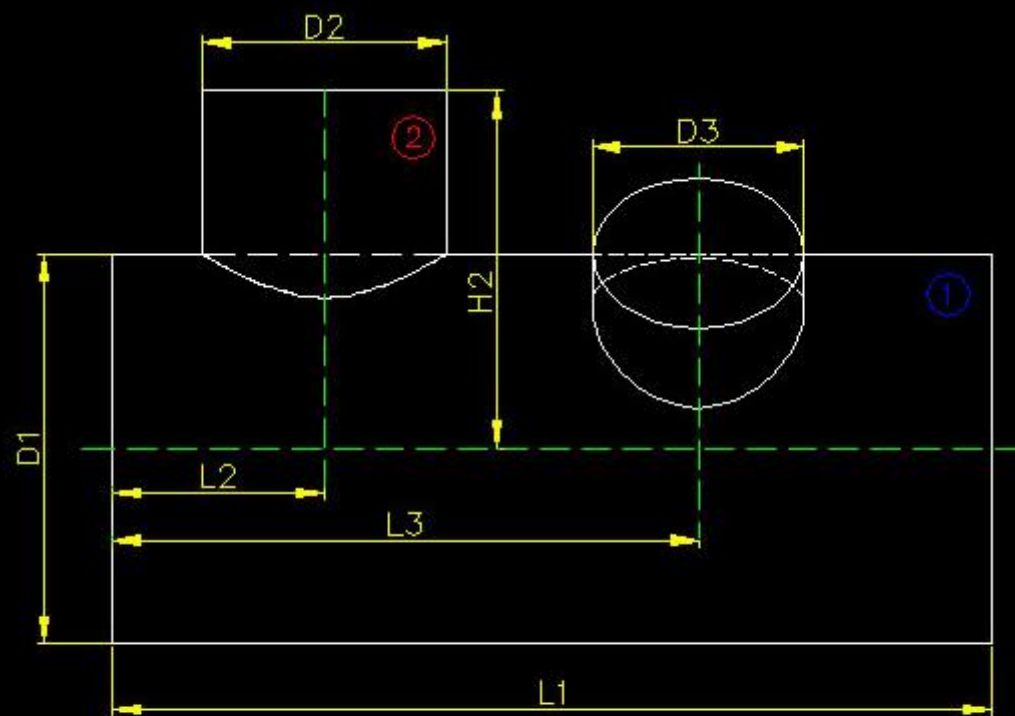
153 - Dupla Intersecção em Cilindro 3

D1	1000
D2	750
D3	750
L1	2700
L2	650
L3	1800
H2	1000
H3	850
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



154 - Dupla Intersecção Cilíndrica em ângulo

D1	1500	
D2	750	
D3	650	
L1	2700	
L2	650	
L3	1800	
H2	1100	
A	1000	
Ang	45	
Ndiv1	32	...
Ndiv2	32	...
Ndiv3	32	...
Qtd	1	
Calcular 3D	Sim	
Método	M+M	...
e1	12,7 (Aço)	...
e2	12,7 (Aço)	...
e3	12,7 (Aço)	...



158 - Pás retas ☆

D1

550

D2

1000

DP

600

Ang

10

L1

250

L2

150

NP

8

N div

16

...

Qty

1

Calcular 3D

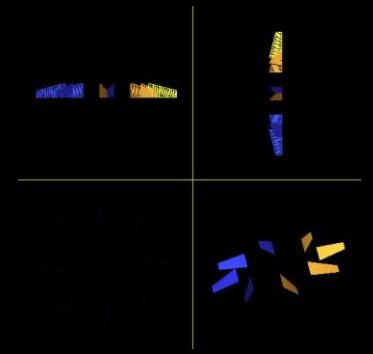
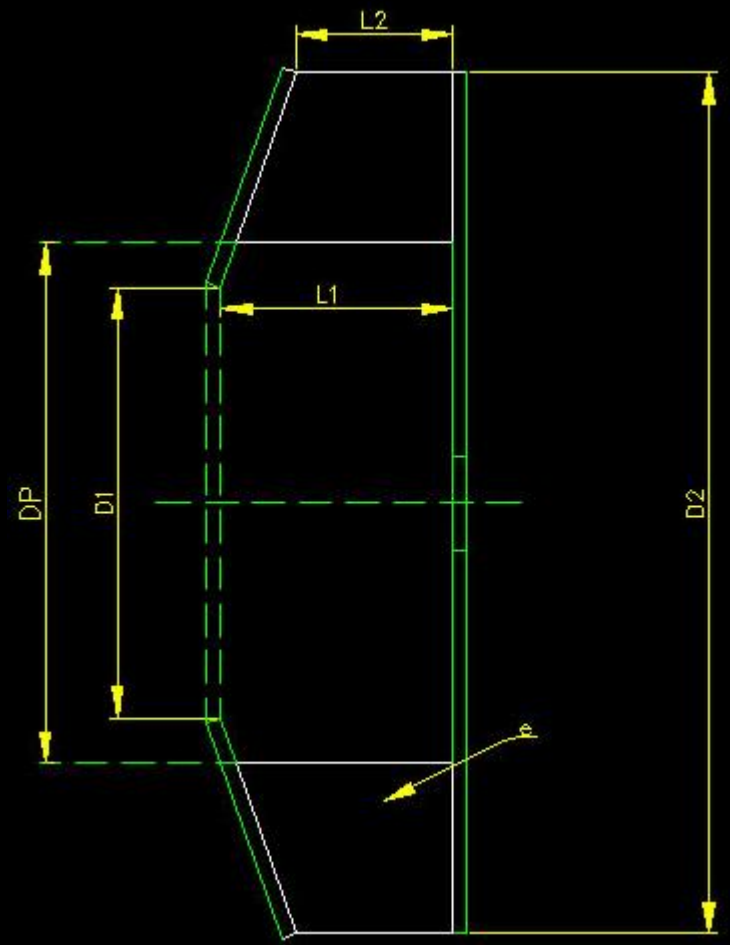
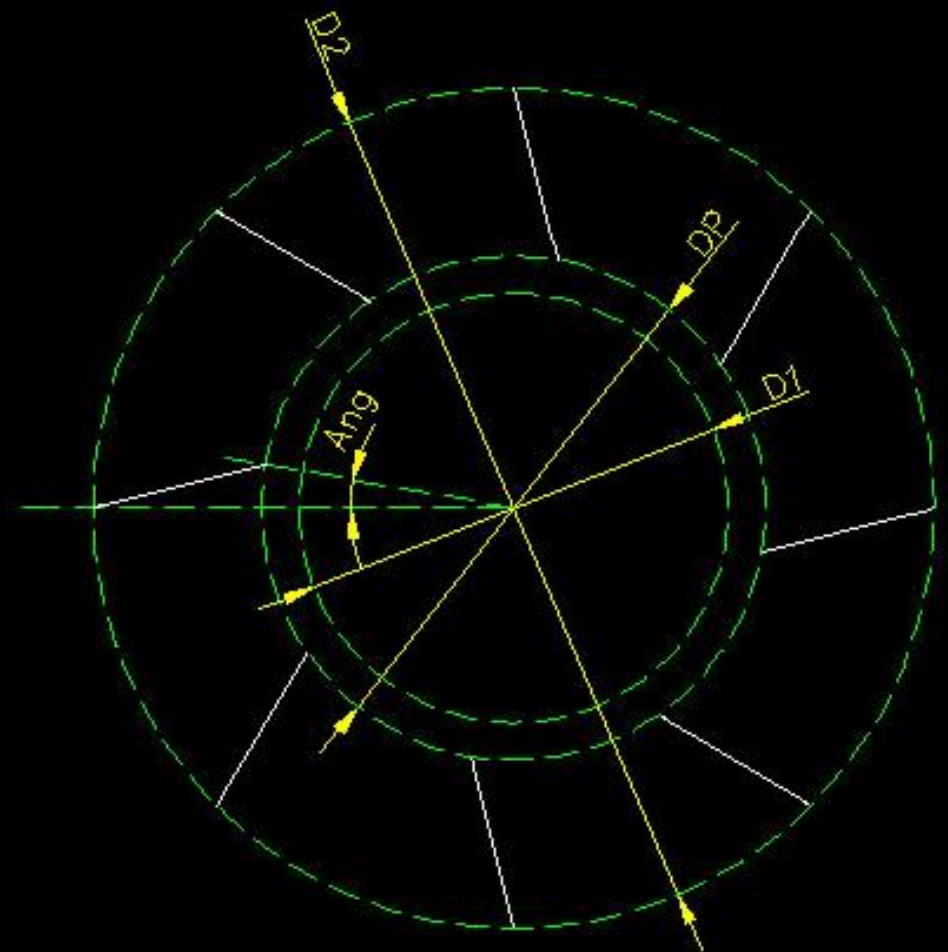
Sim

▼

e

1 (Aço)

...



160 - Rotor de pás retas ☆

D1 600

D2 1000

D3 80

DP 650

Ang 25

L1 250

L2 150

NP 8

N div 16

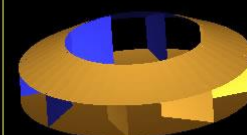
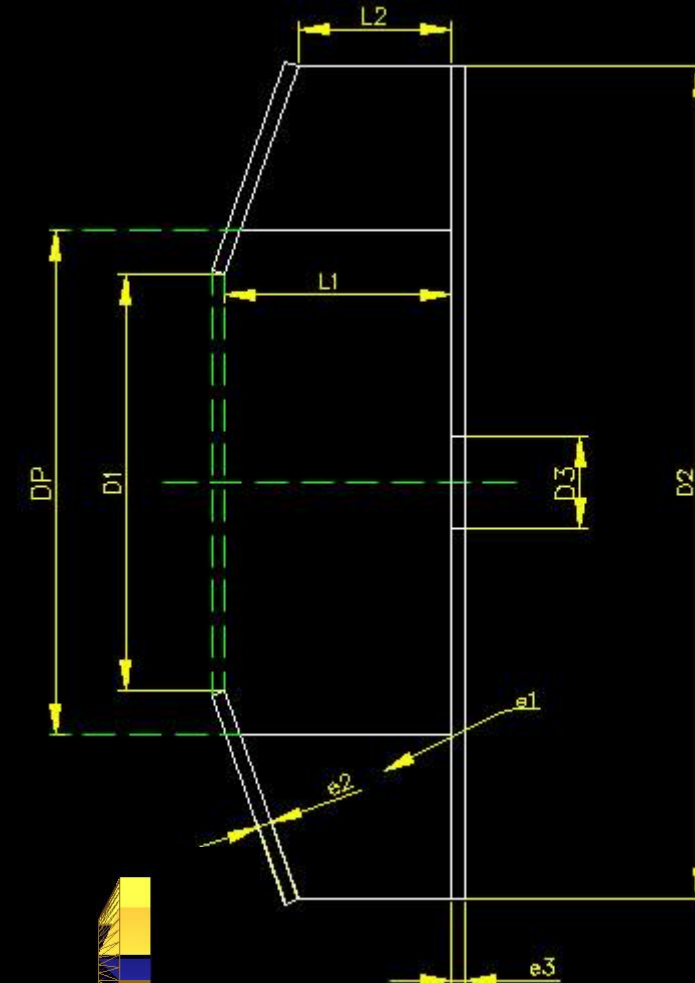
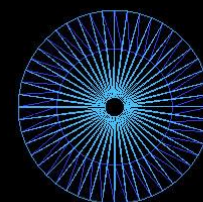
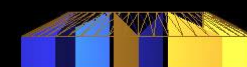
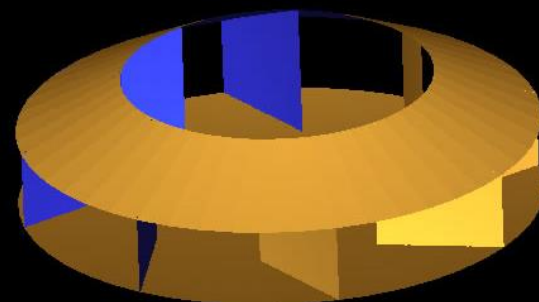
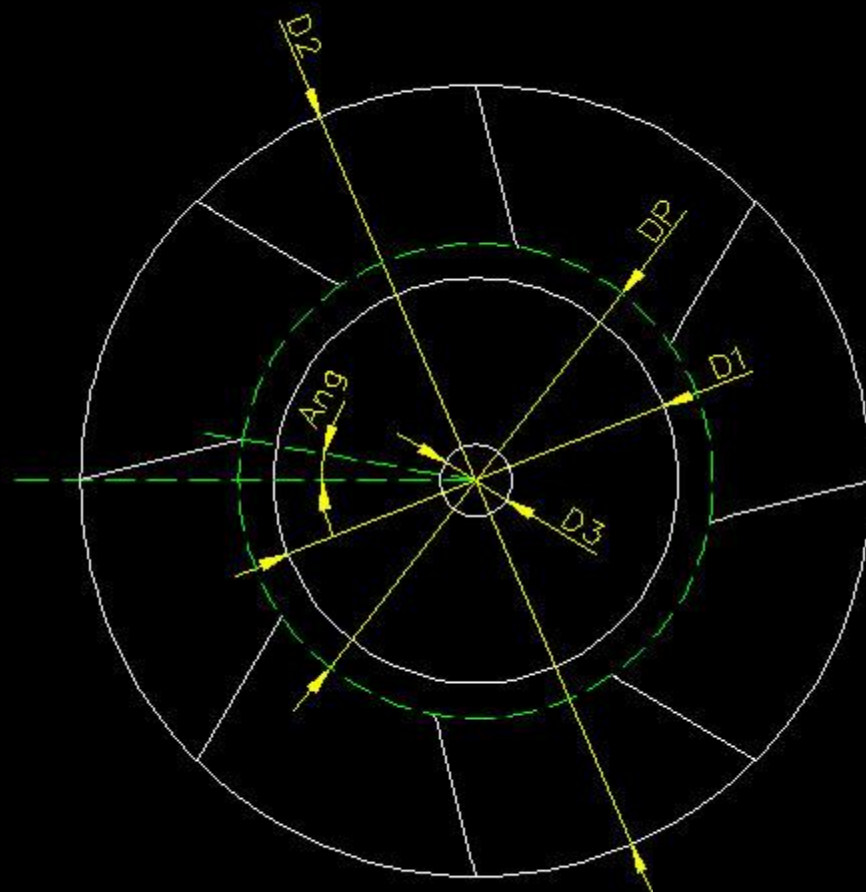
Qtd 1

Calcular 3D Sim

e1 12,7 (Aço)

e2 12,7 (Aço)

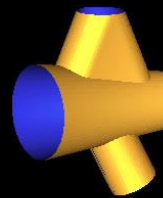
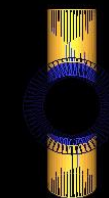
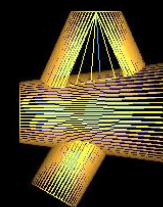
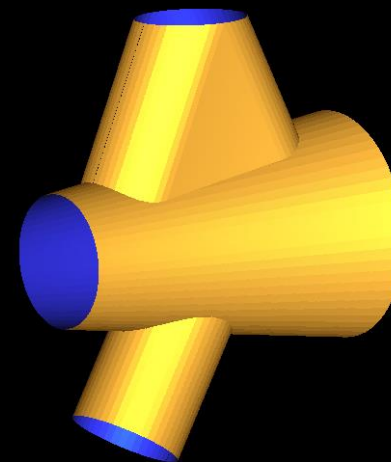
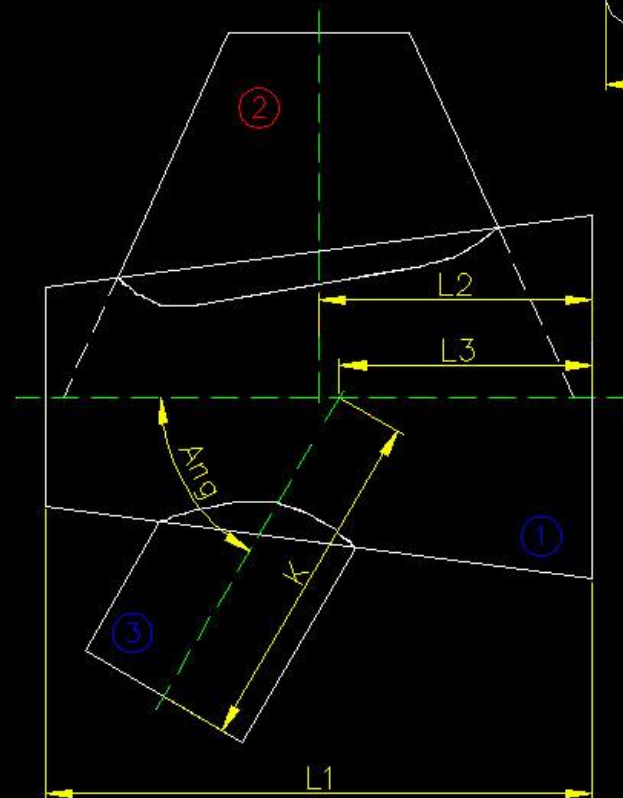
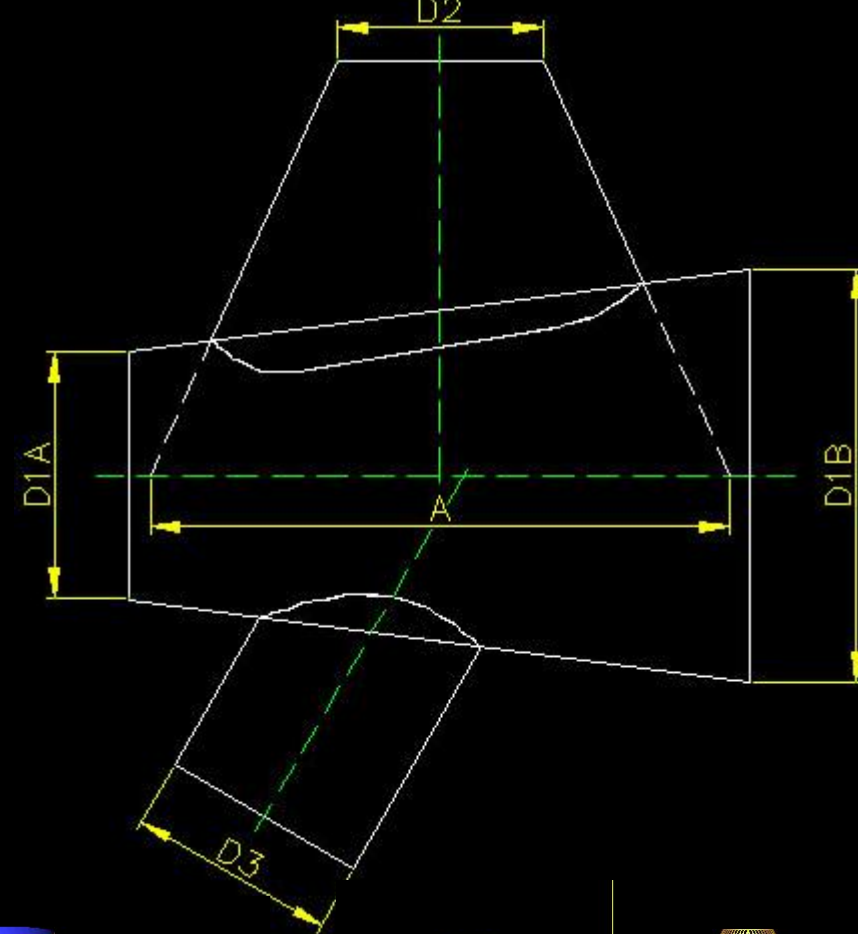
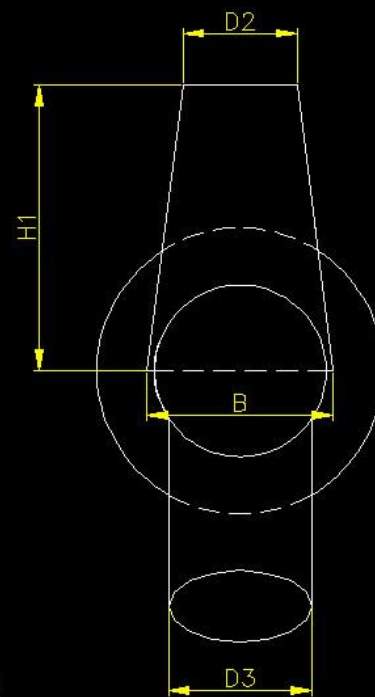
e3 12,7 (Aço)



161 - Dupla Intersecção em Cone 2

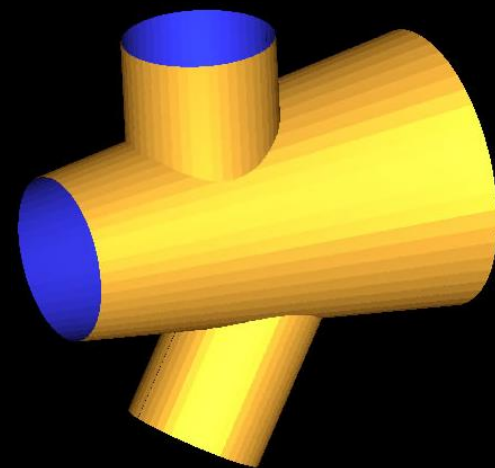
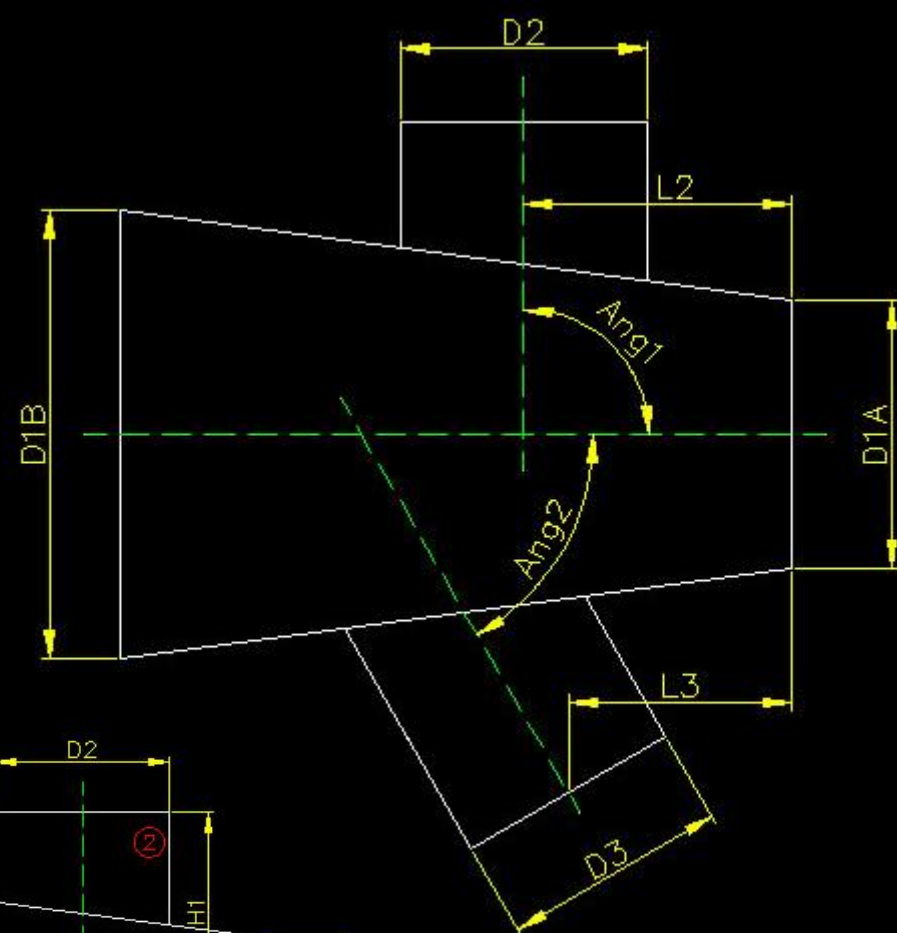
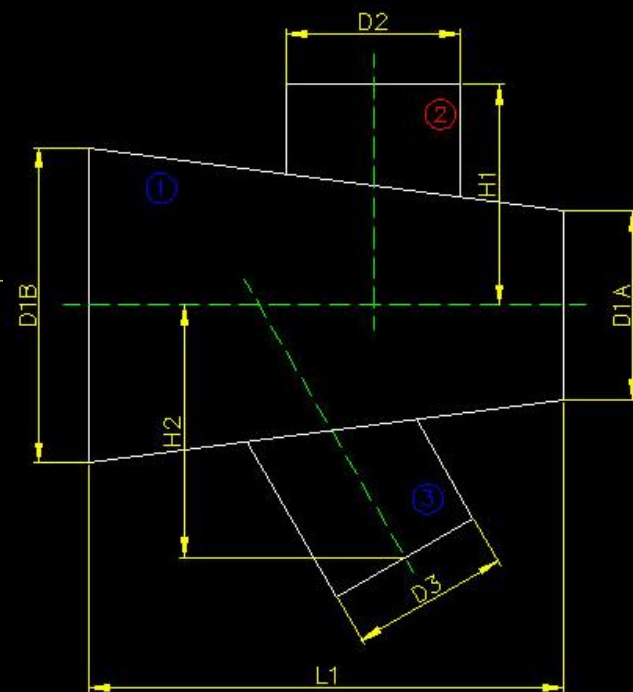
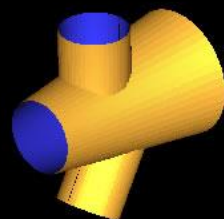
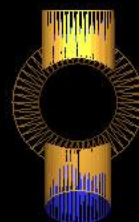
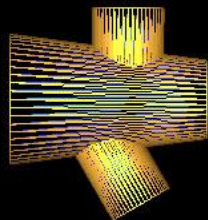
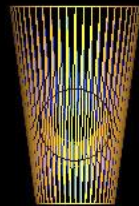
D1A	1000
D1B	600
D2	500
D3	500
A	1400
L1	1500
L2	750
L3	700
Ang	60
K	950
H1	1000
B	500
N div1	32 ...
N div2	16 ...
N div3	16 ...

Qty	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



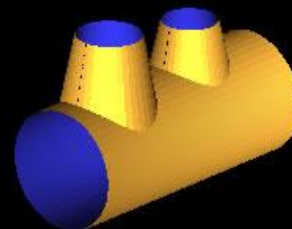
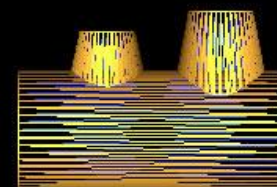
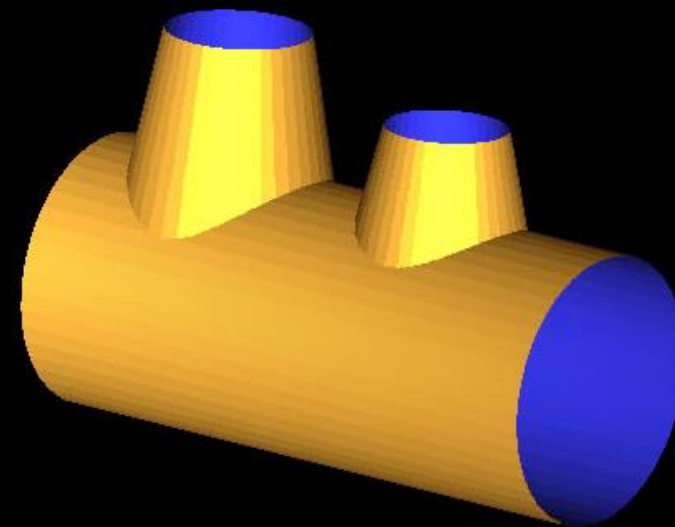
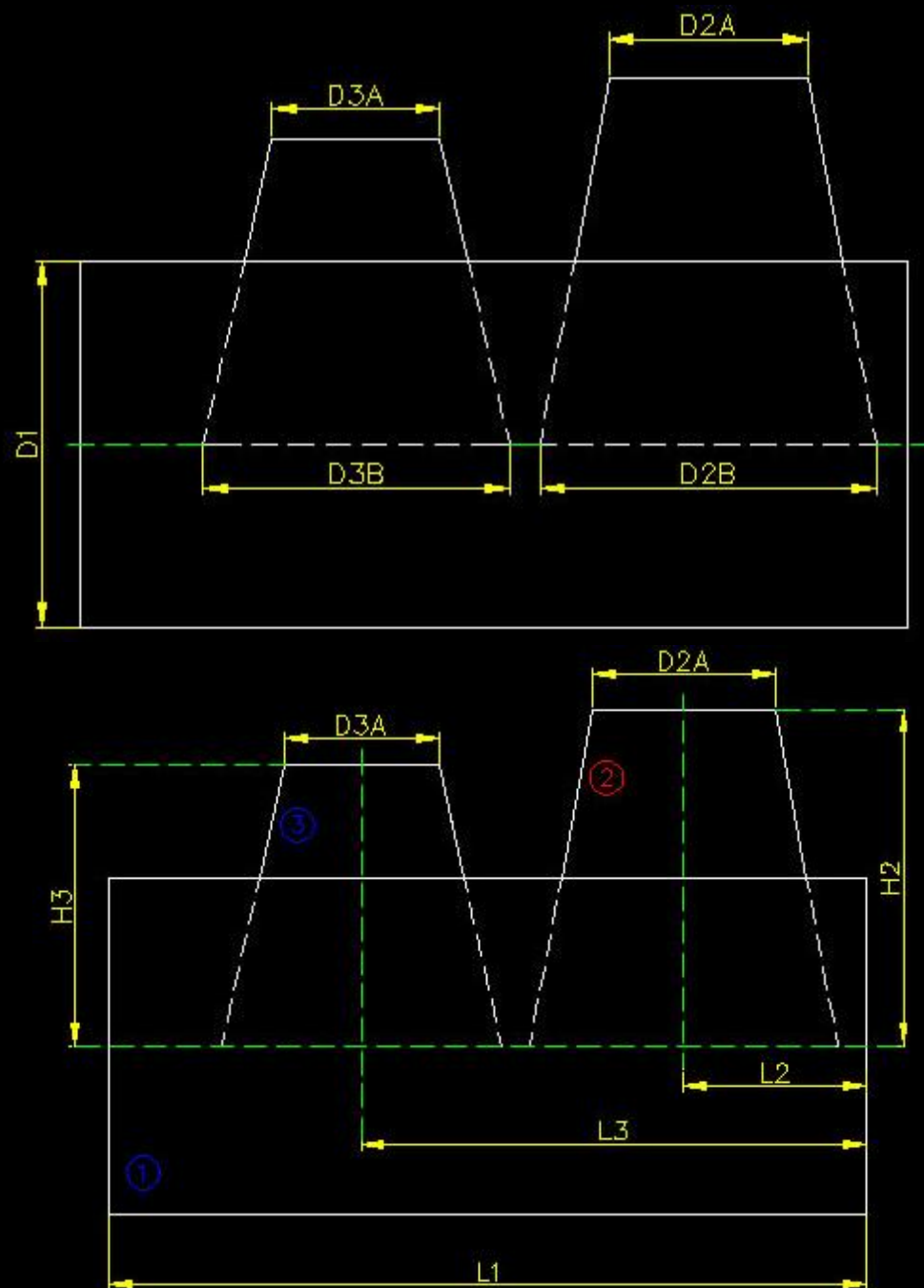
162 - Dupla Intersecção em Cone 3

D1A	600	Qtd	1
D1B	1000	Calcular 3D	Sim ▼
D2	550	Método	M+M ...
D3	500	e1	12,7 (Aço) ...
L2	600	e2	12,7 (Aço) ...
L3	500	e3	12,7 (Aço) ...
Ang1	90		
Ang2	60		
L1	1500		
H1	700		
H2	800		
N div1	32	...	
N div2	16	...	
N div3	16	...	



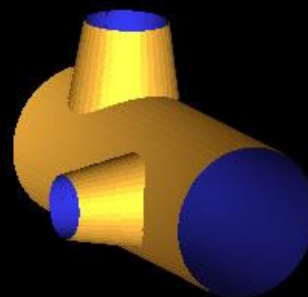
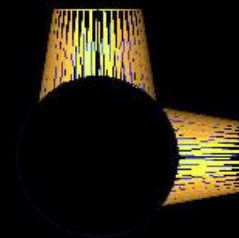
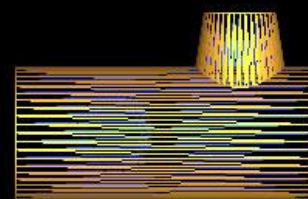
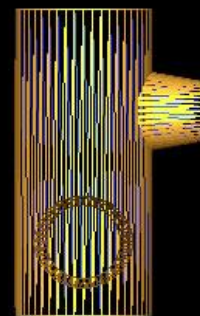
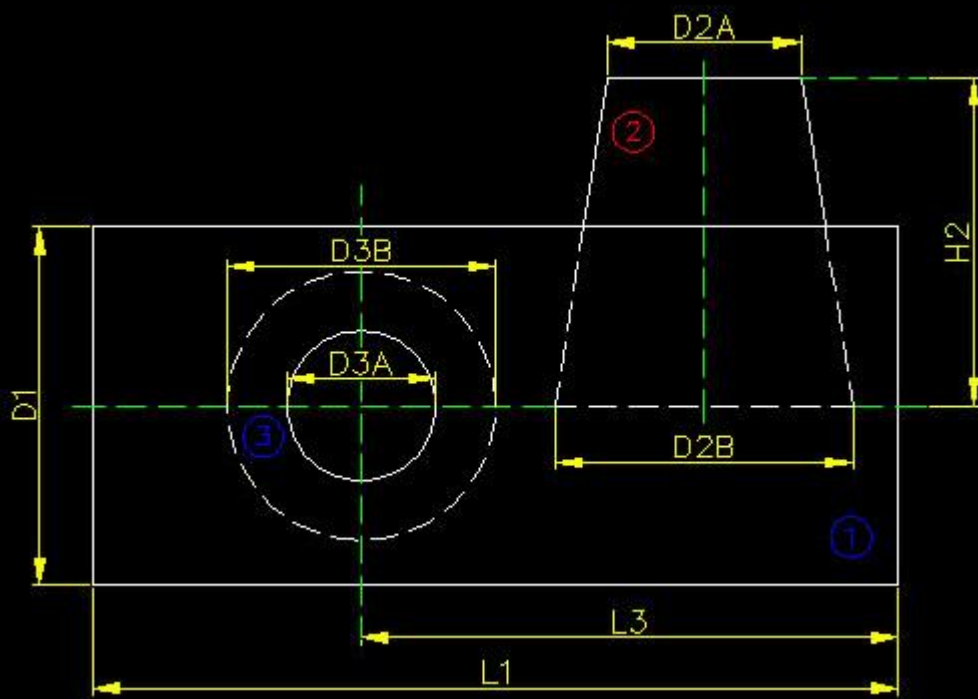
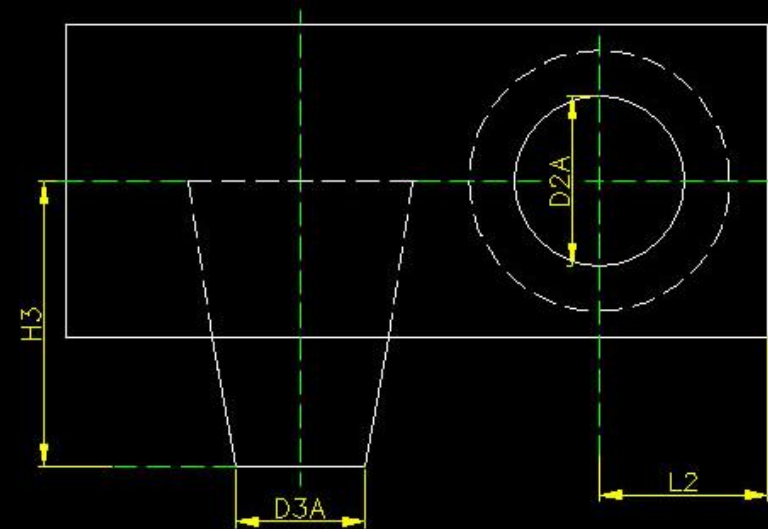
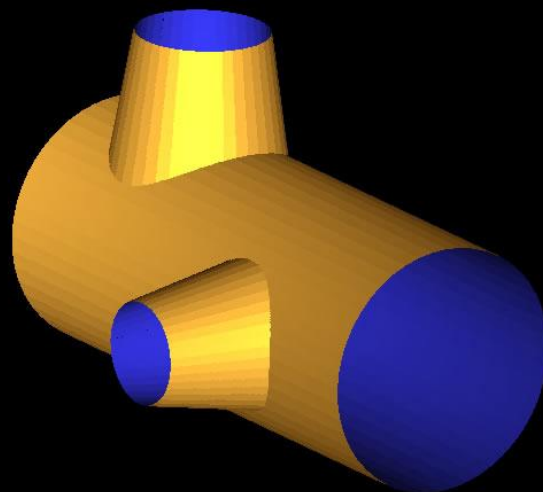
166 - Intersecção de Cones em Cilindro

D1	1200
D2A	650
D2B	1100
D3A	550
D3B	1000
L1	2700
L2	650
L3	1800
H2	1200
H3	1000
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtyd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



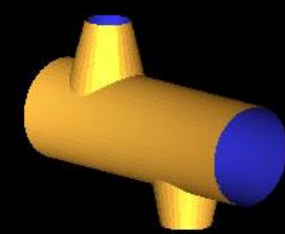
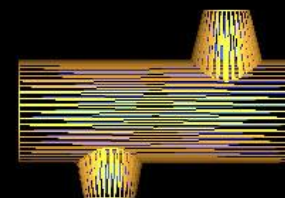
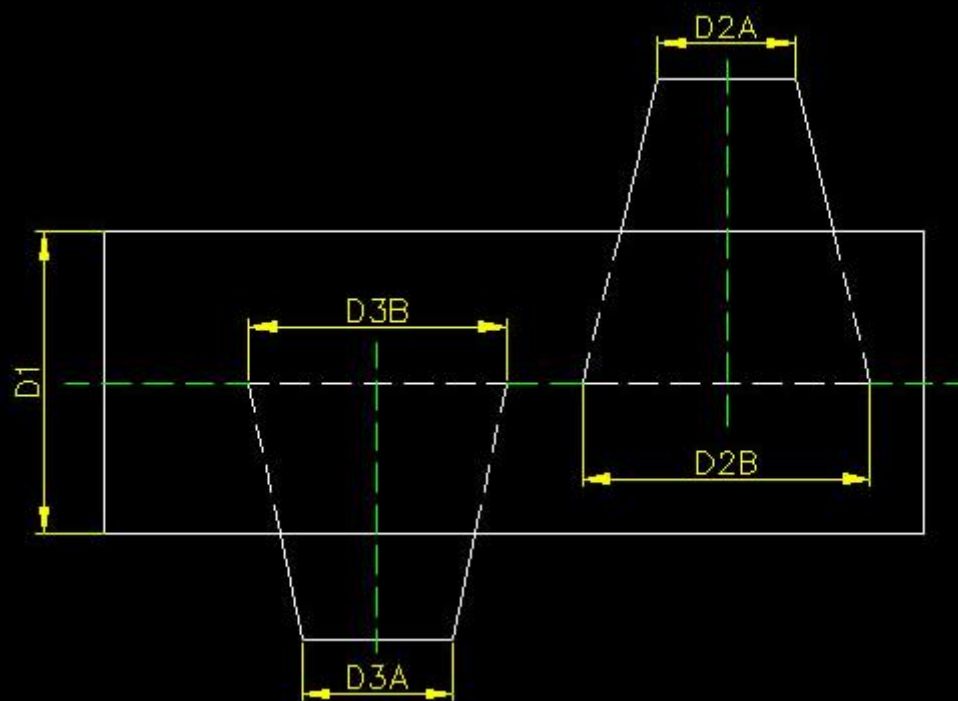
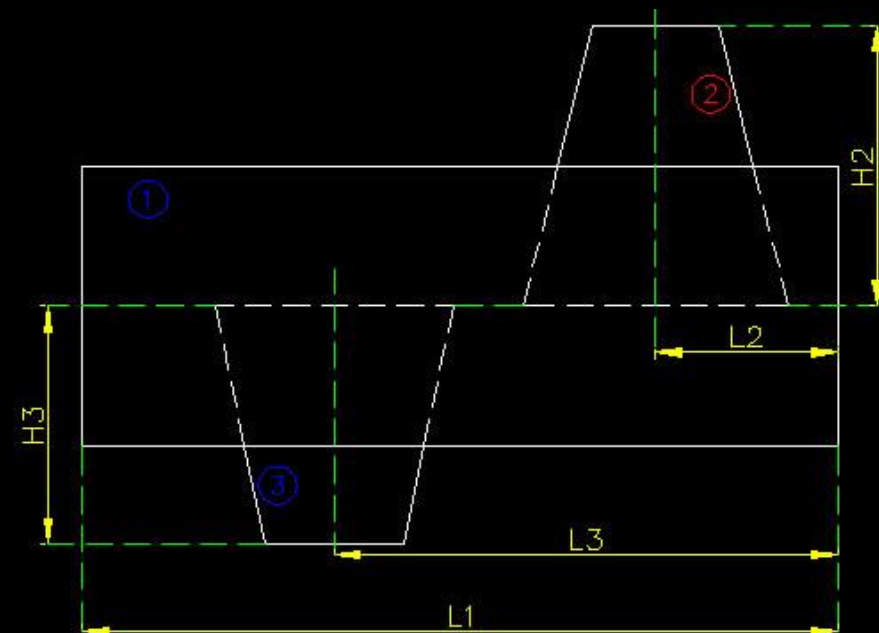
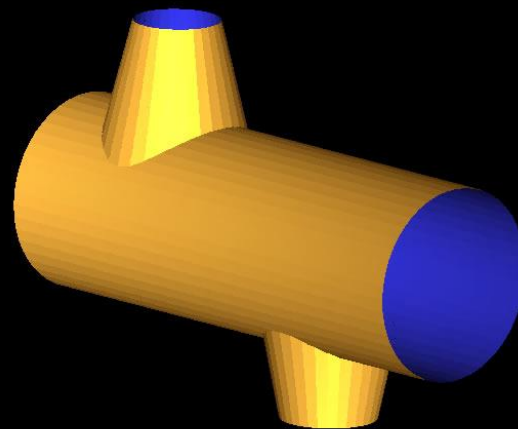
167 - Intersecção de Cones em Cilindro 2

D1	1200	Qtd	1
D2A	650	Calcular 3D	Sim
D2B	1000	Método	M+M
D3A	500	e1	12,7 (Aço)
D3B	900	e2	12,7 (Aço)
L1	2700	e3	12,7 (Aço)
L3	1800		
H2	1100		
L2	650		
H3	1100		
Ndiv1	32		
Ndiv2	32		
Ndiv3	32		



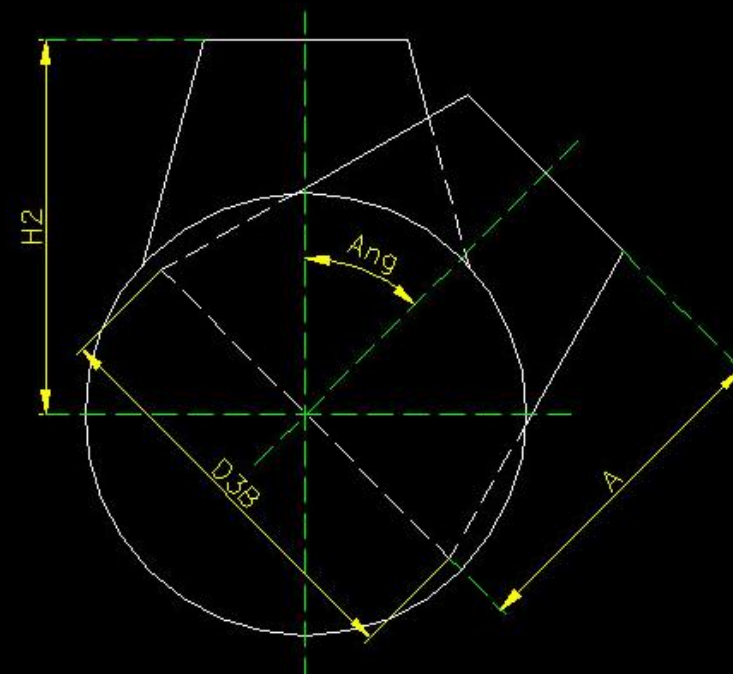
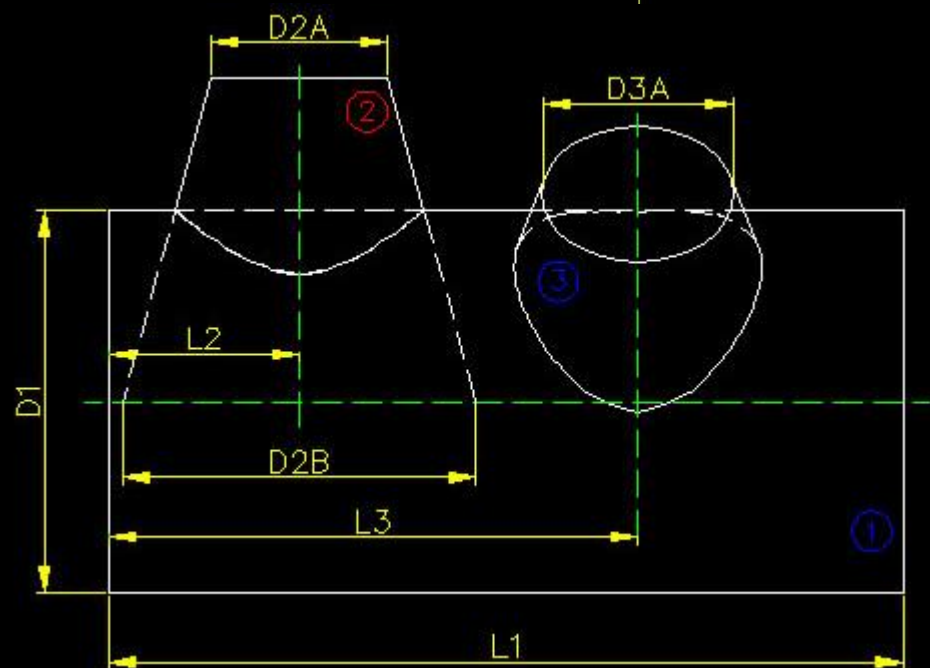
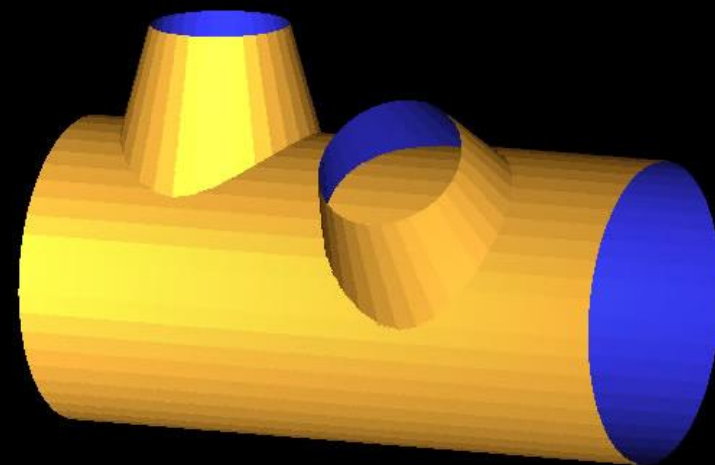
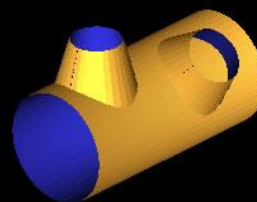
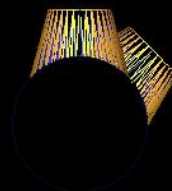
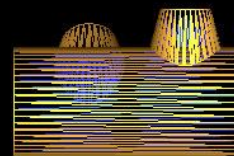
168 - Intersecção de Cones em Cilindro 3

D1	1000	Qtd	1
D2A	450	Calcular 3D	Sim
D2B	950	Método	M+M
D3A	500	e1	12,7 (Aço)
D3B	850	e2	12,7 (Aço)
L1	2700	e3	12,7 (Aço)
L2	650		
L3	1800		
H2	1000		
H3	850		
Ndiv1	32		
Ndiv2	32		
Ndiv3	32		



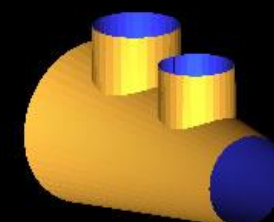
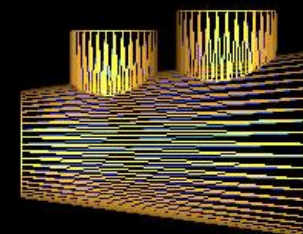
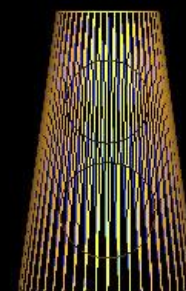
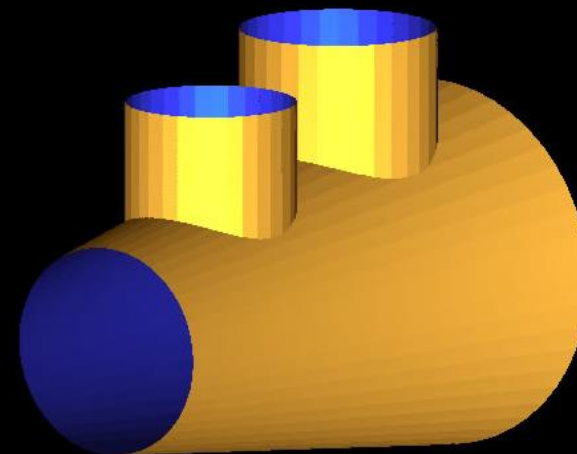
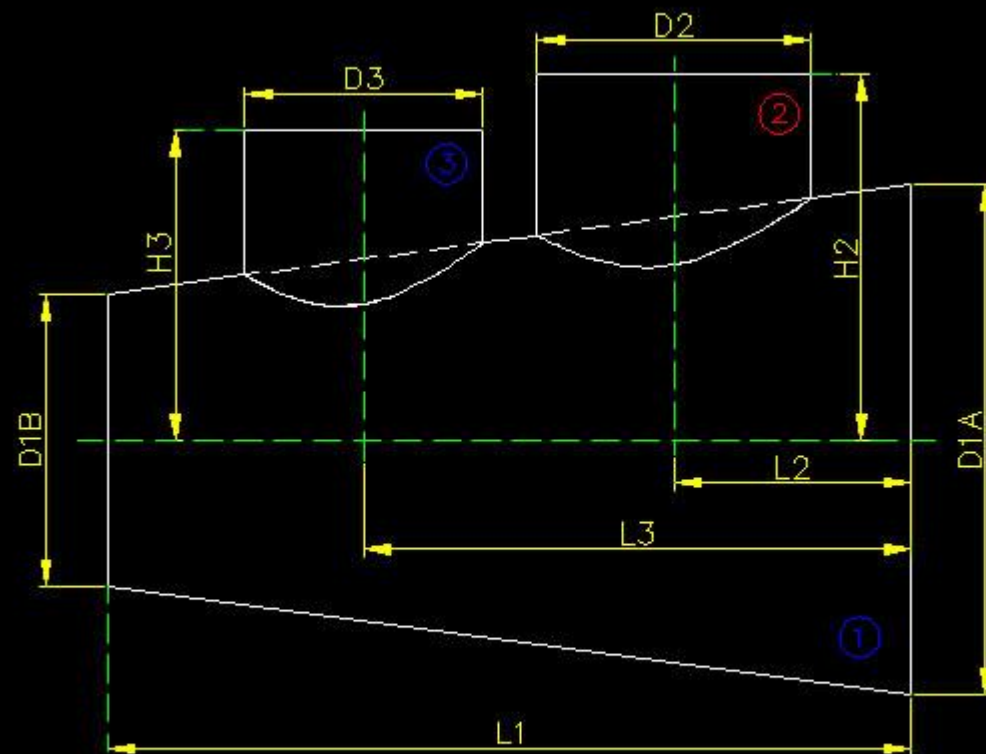
169 - Intersecção de Cones/Cilindro em ângulo

D1	1300	Qtd	1
D2A	600	Calcular 3D	Sim
D2B	1200	Método	M+M
D3A	650	e1	12,7 (Aço)
L1	2700	e2	12,7 (Aço)
L2	650	e3	12,7 (Aço)
L3	1800		
D3B	1200		
H2	1100		
A	1000		
Ang	45		
Ndiv1	32		
Ndiv2	32		
Ndiv3	32		



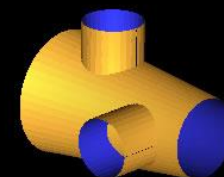
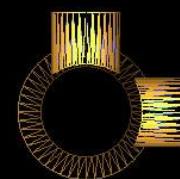
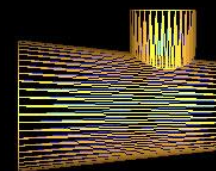
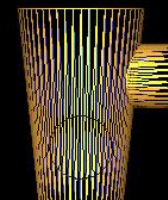
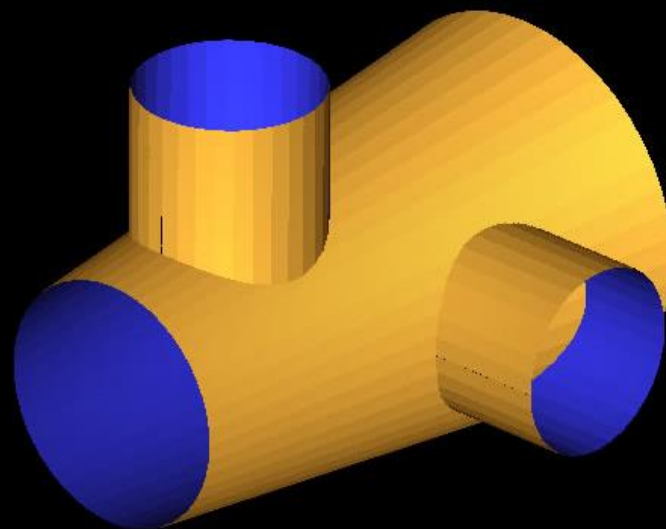
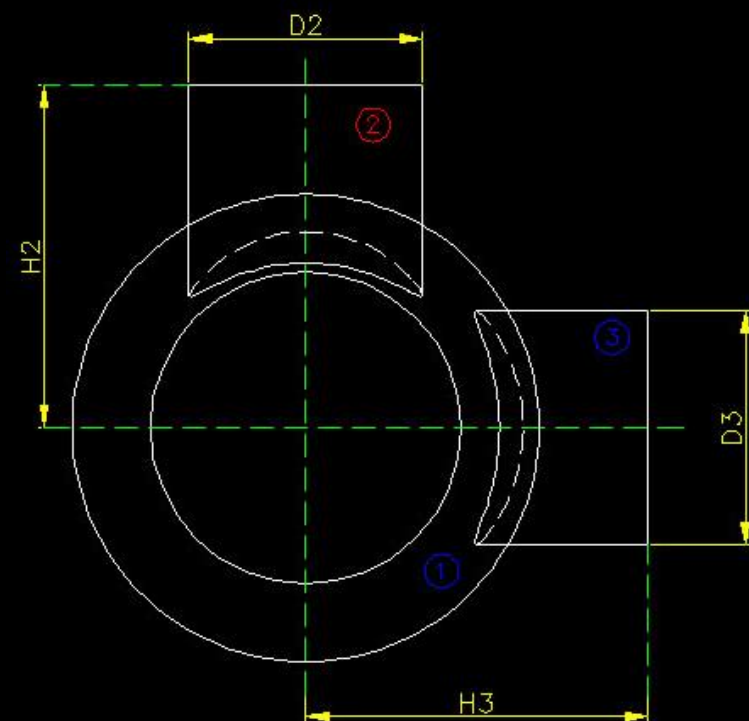
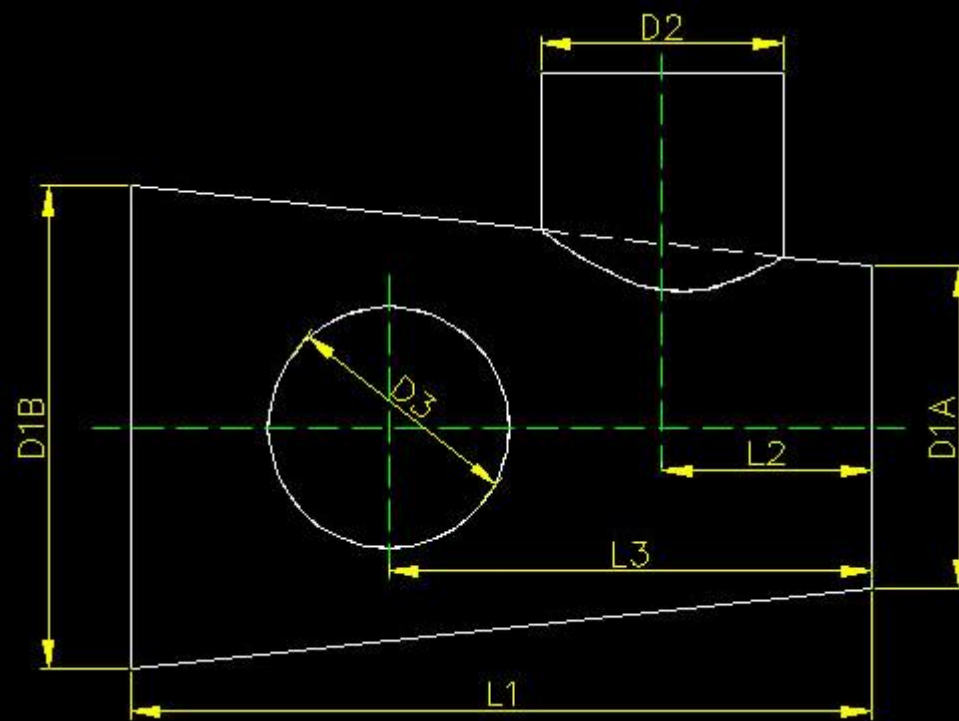
170 - Intersecção de Cilindros em Cone

D1A	1400
D1B	800
D2	750
D3	650
L1	2200
L2	650
L3	1500
H2	1000
H3	850
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



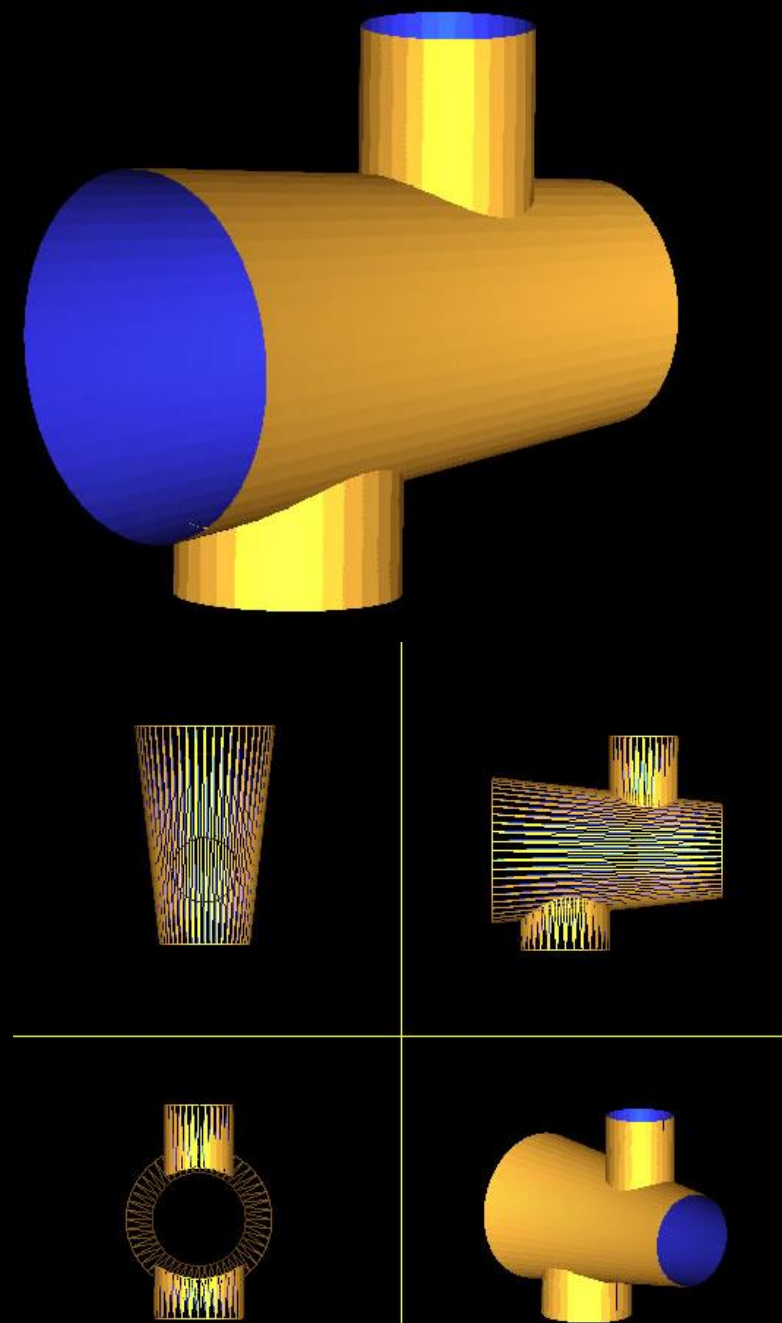
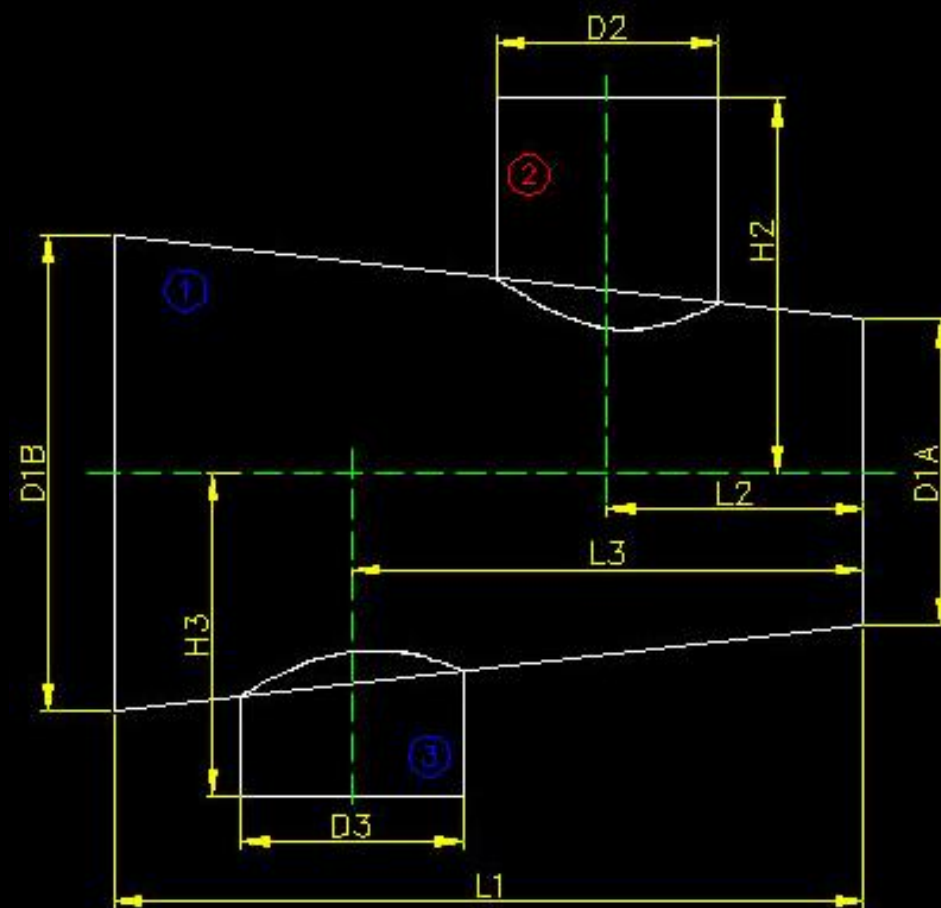
171 - Intersecção de Cilindros em Cone 2

D1A	1000
D1B	1500
D2	750
D3	750
L1	2300
L2	650
L3	1500
H2	1100
H3	1100
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



172 - Intersecção de Cilindros em Cone 3

D1A	900
D1B	1400
D2	650
D3	650
L1	2200
L2	750
L3	1500
H2	1100
H3	950
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



178 - Tubo elíptico ☆

A

1000

B

500

H

800

N div

32

...

Qtd

1

Calcular 3D

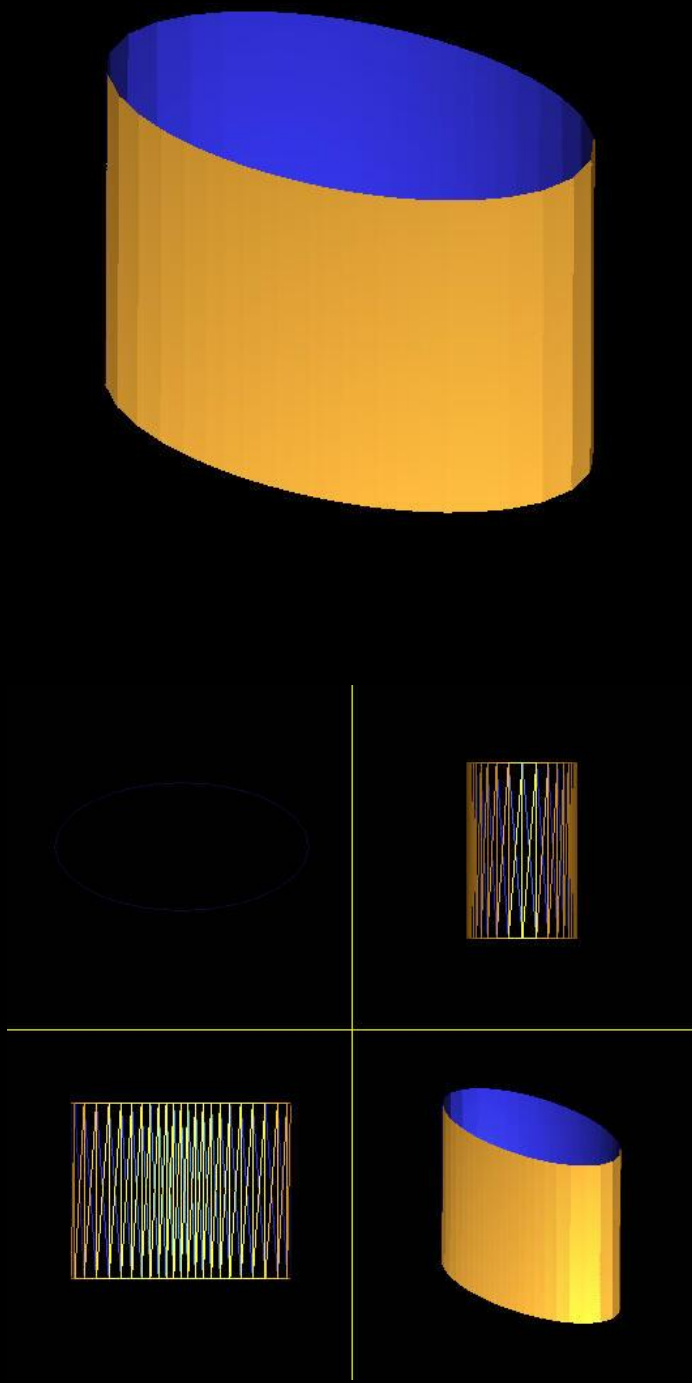
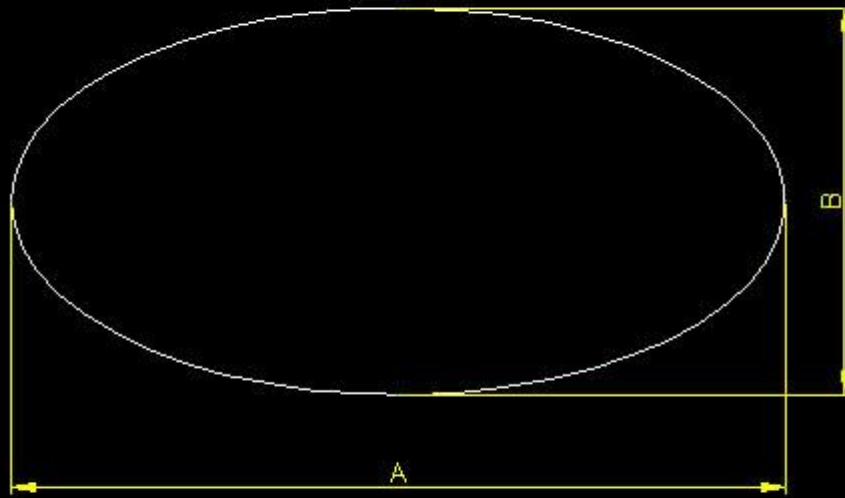
Sim

▼

e

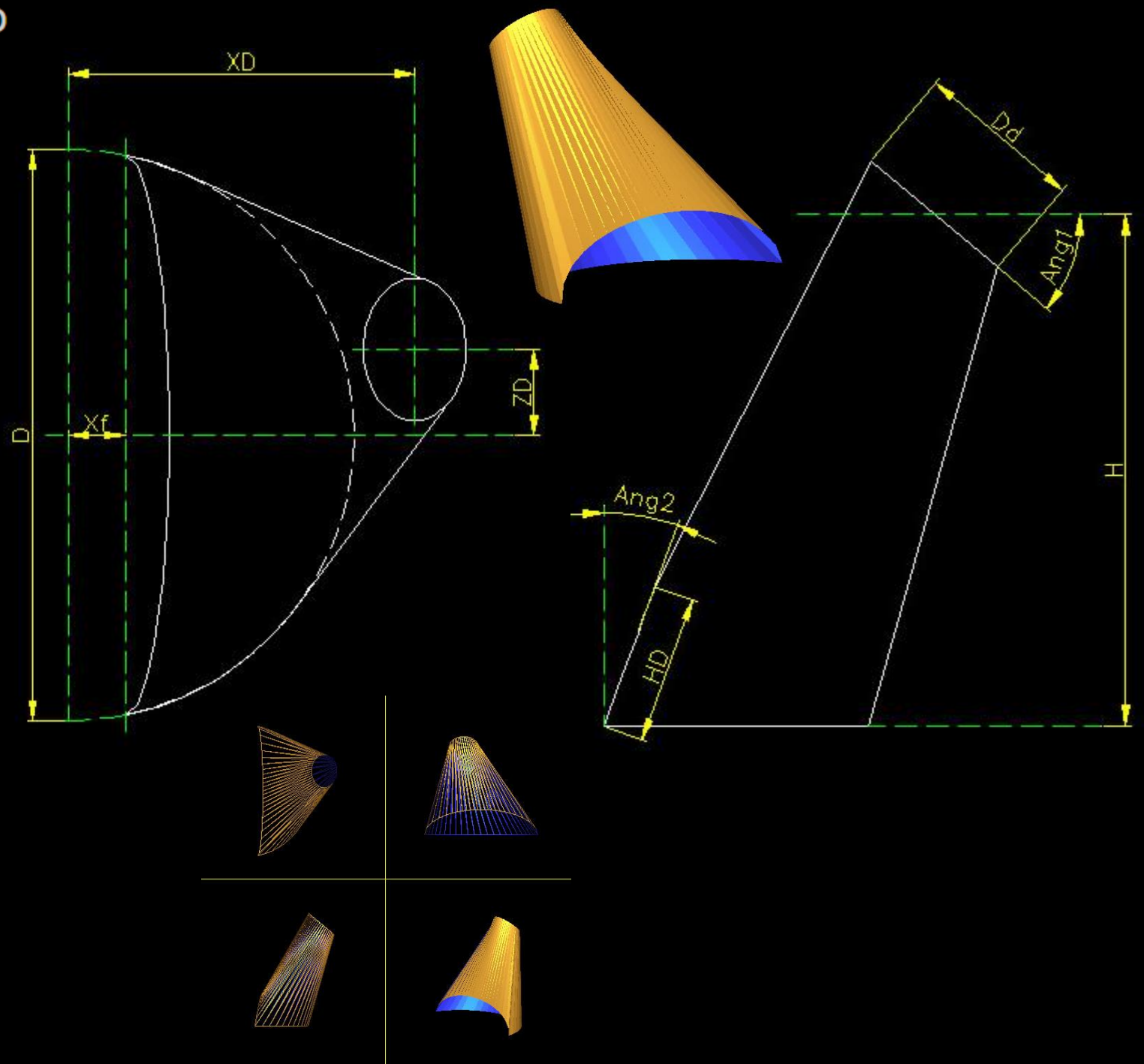
1 (Aço)

...



182 - Transição lateral da trifurcação

D	2000
XD	1200
ZD	300
Xf	200
Dd	500
HD	450
H	1550
Ang1	40
Ang2	10
N div	32 ...
Qtd	1
Calcular 3D	Sim ▼
e	1 (Aço) ...



183 - Intersecção Cilindro Transição Cil/Oval Exc.

D1 1000

D2 500

H 1100

H1 100

K 1000

A 1800

B 650

L 2000

ExD 200

ExB 100

Ndiv1 32 ...

Ndiv2 16 ...

Qty 1

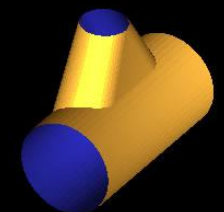
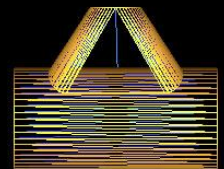
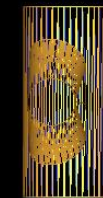
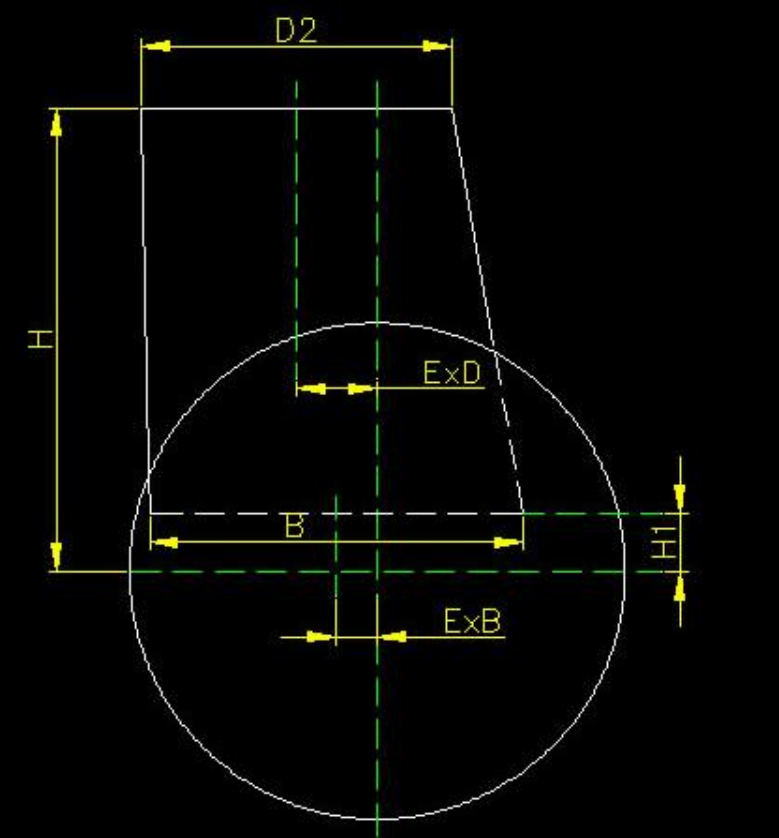
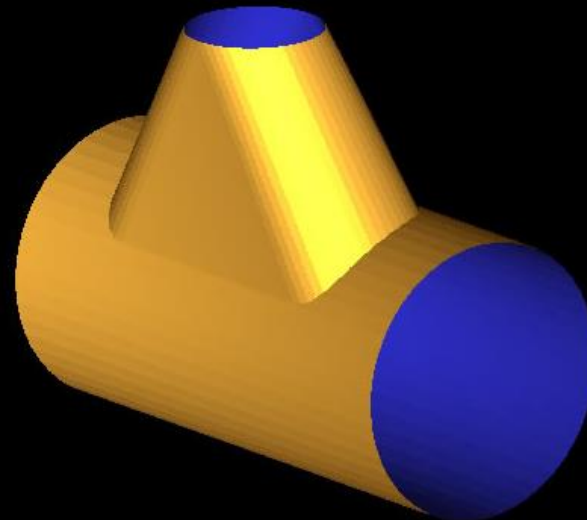
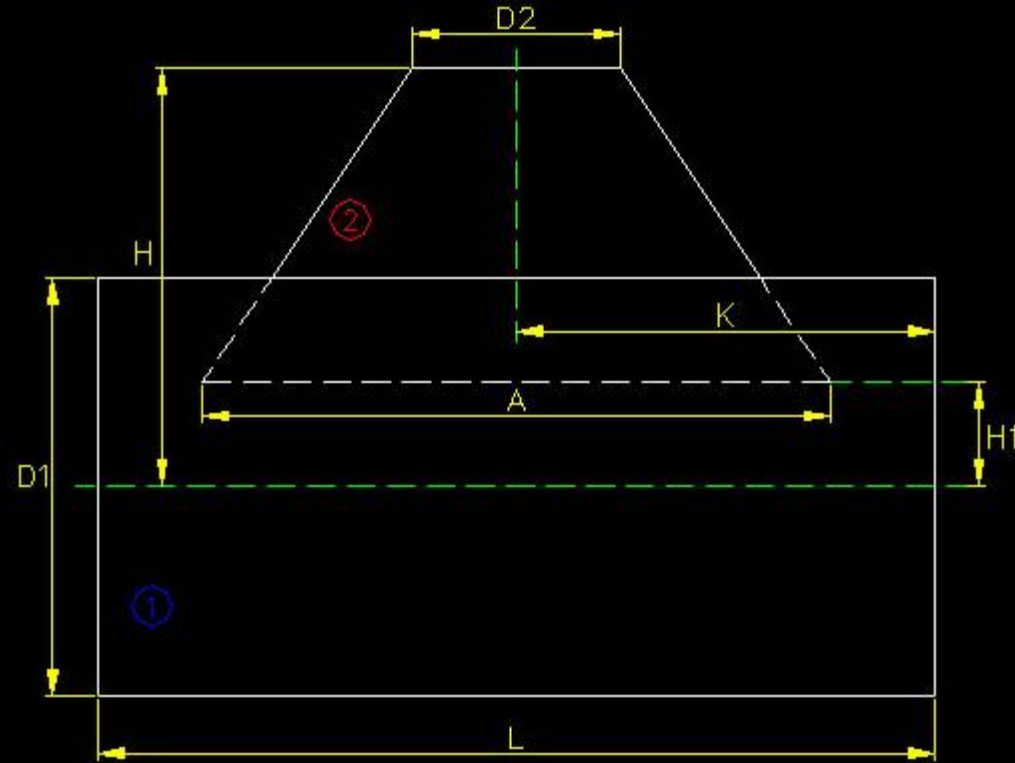
Calcular 1+2 ▼

Calcular 3D Sim ▼

Método M+M ...

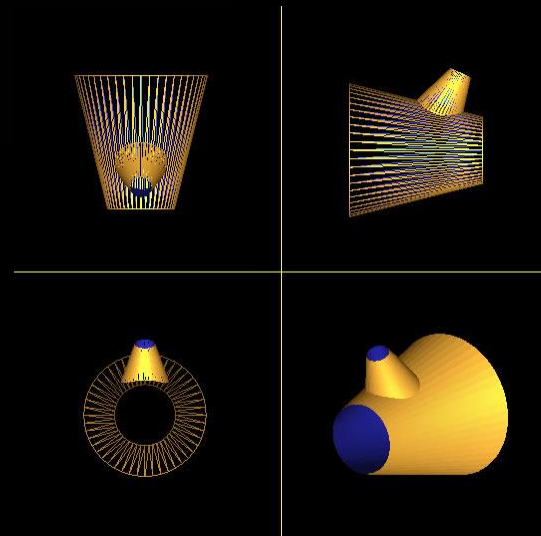
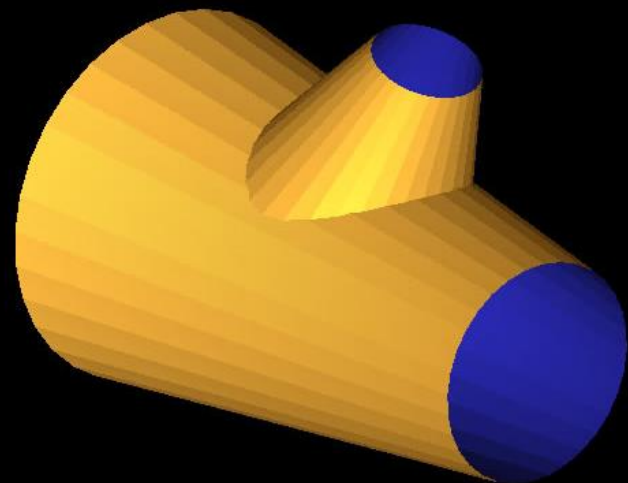
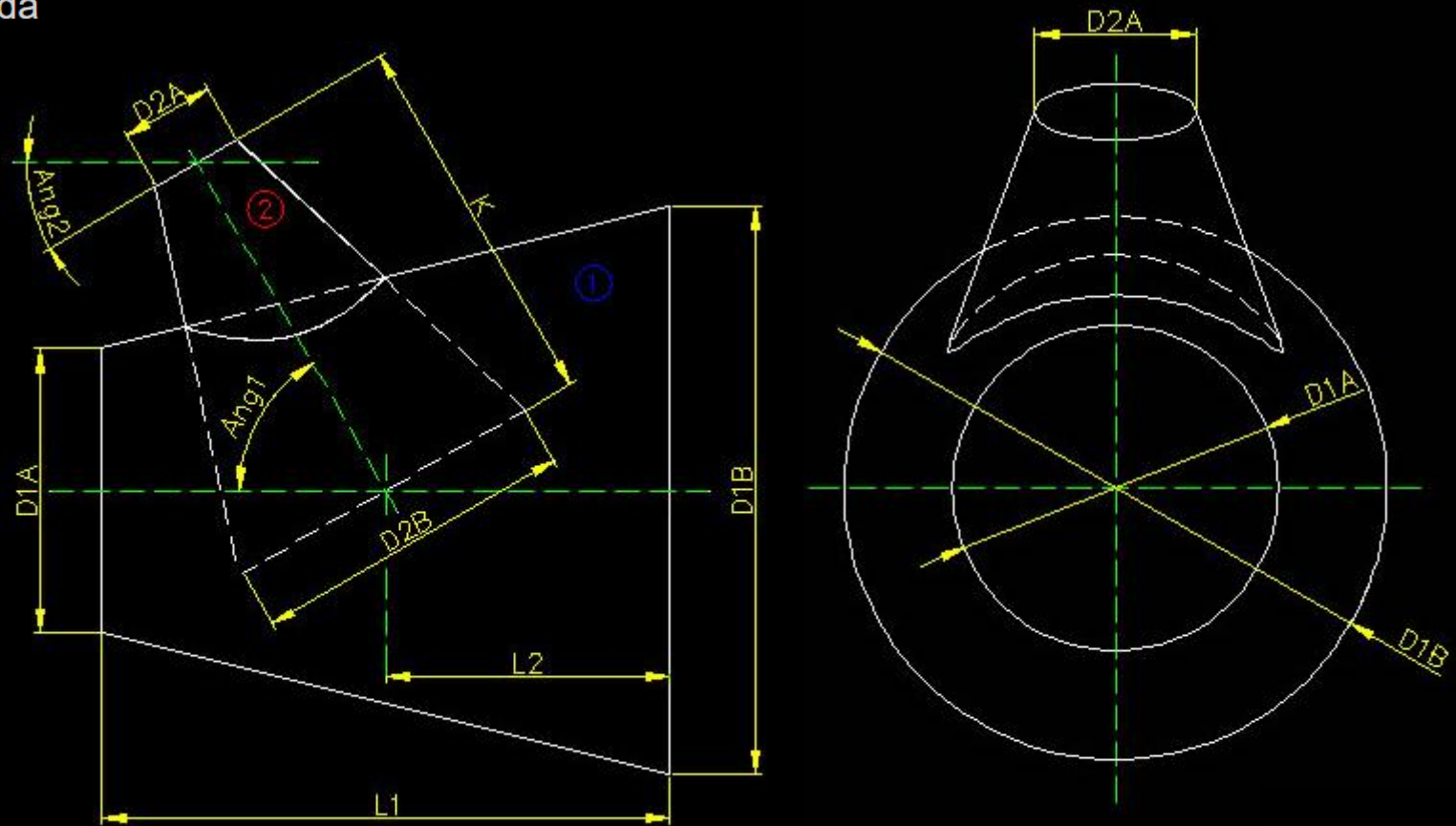
e1 10 (Aço) ...

e2 8 (Aço) ...



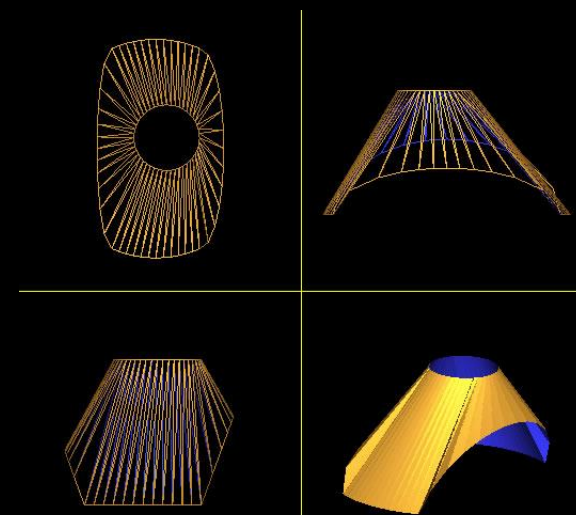
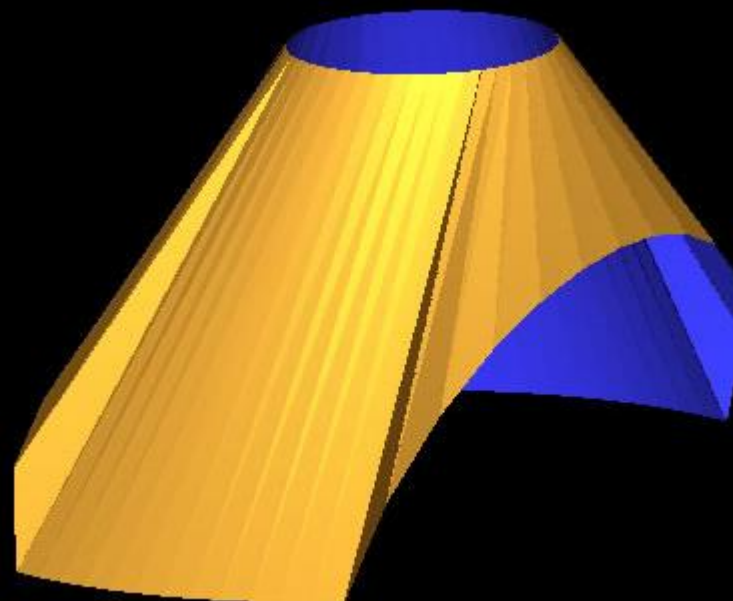
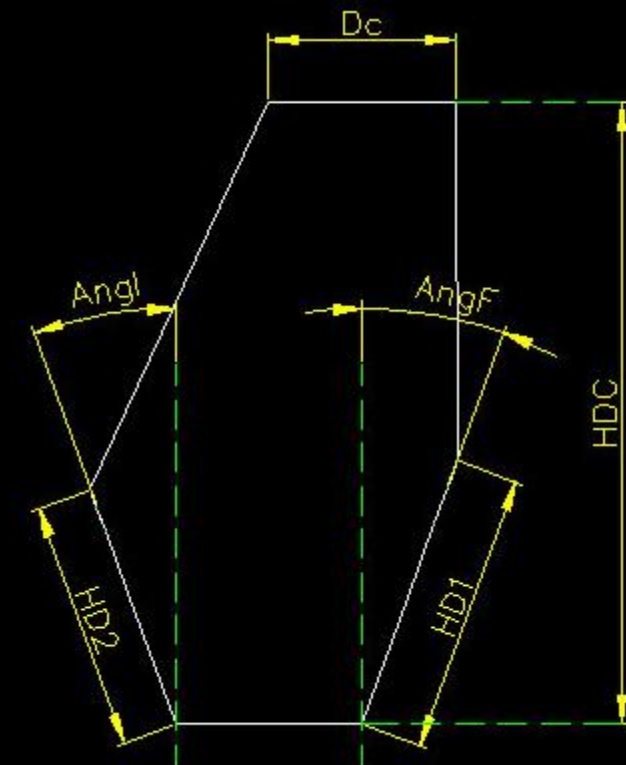
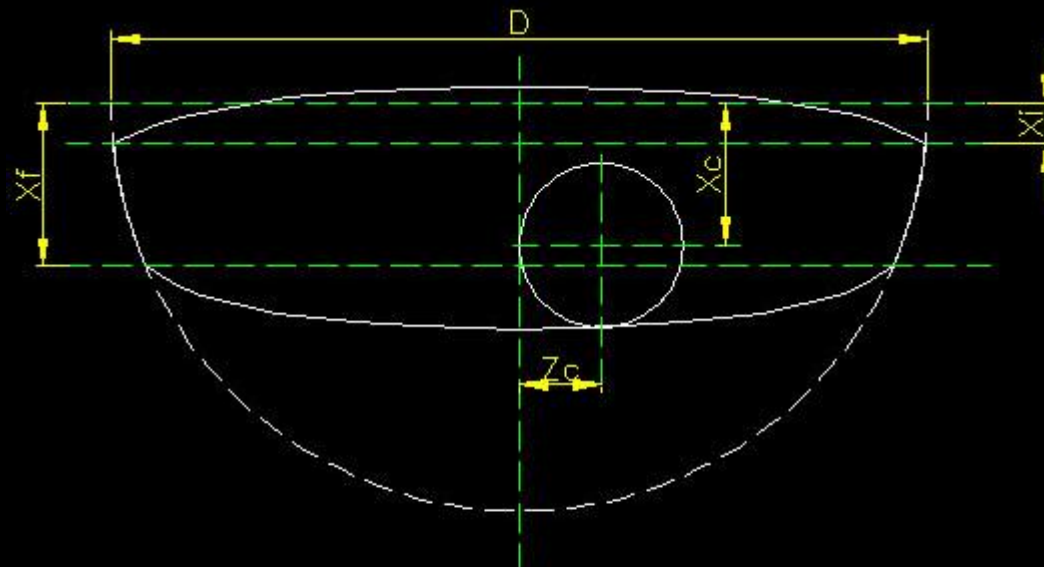
184 - Intersecção Cone/Cone Inclinada

D1A	600
D1B	1000
L1	1500
L2	600
Ang1	60
D2A	200
D2B	400
K	800
Ang2	20
Ndiv1	32 ...
Ndiv2	16 ...
Qtd	1
Calcular	1+2 ▼
Calcular 3D	Sim ▼
Método	M+M ...
e1	10 (Aço) ...
e2	8 (Aço) ...



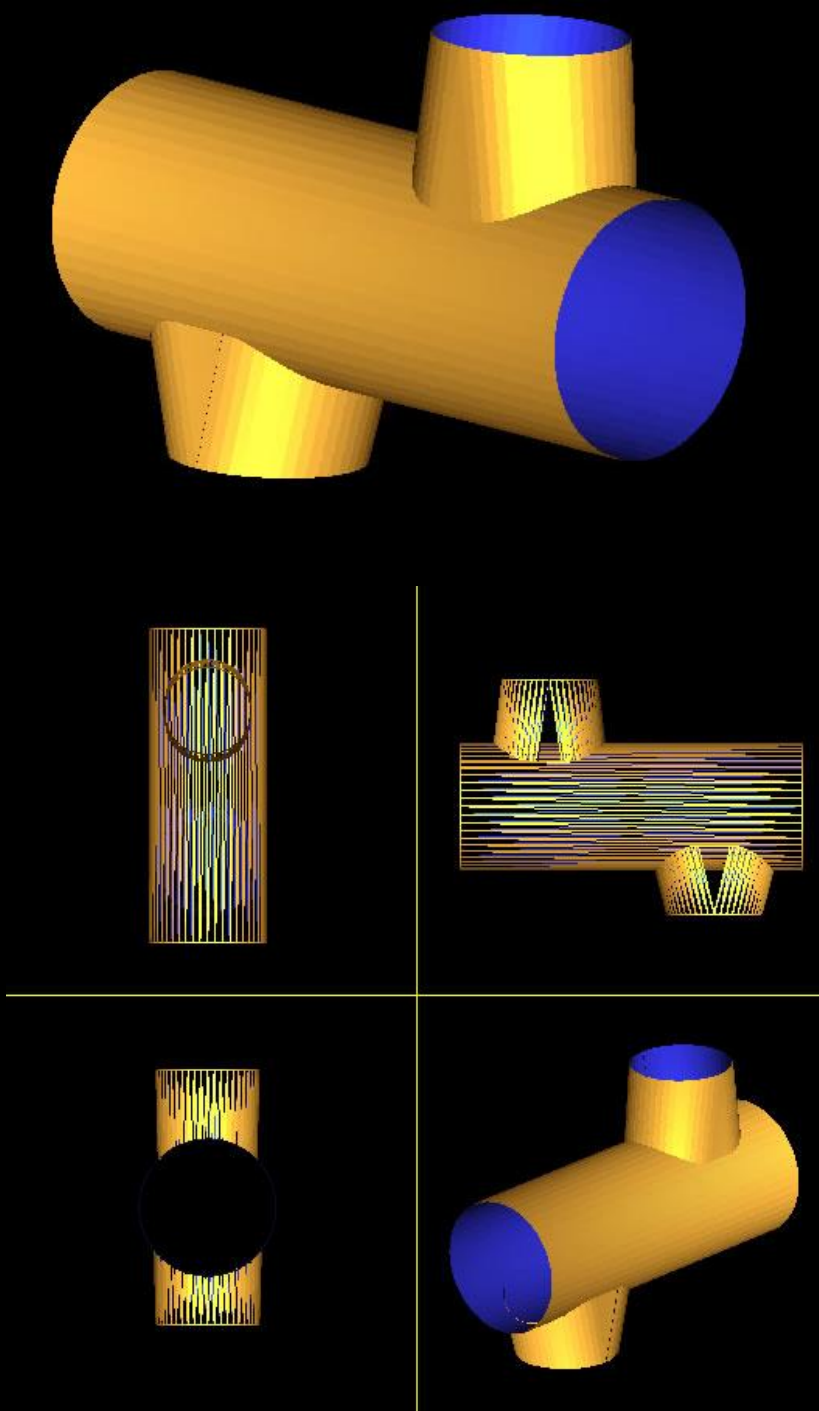
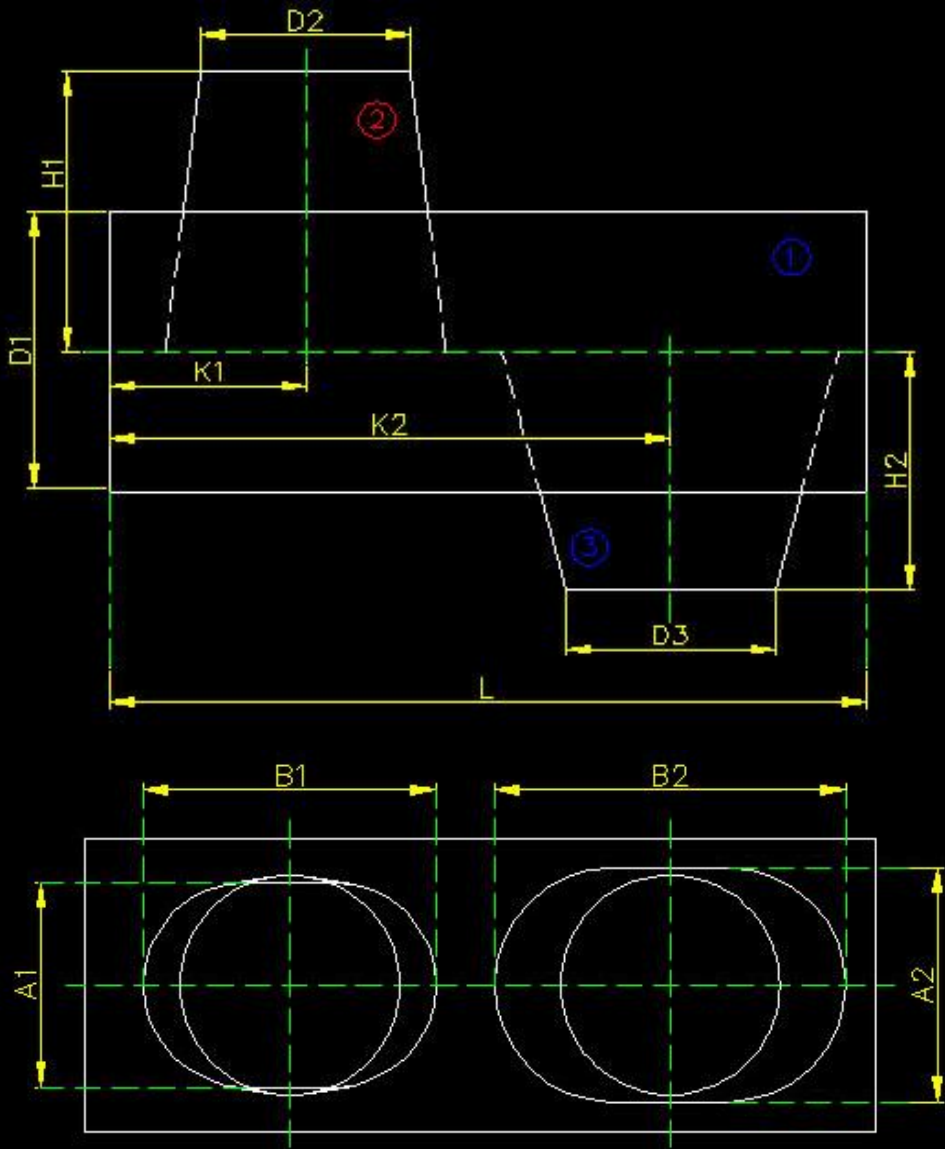
185 - Transição central da trifurcação

D	2000
Xc	0
Zc	0
Xi	-400
Xf	400
Dc	650
HD1	850
HD2	850
HDC	2000
AngI	15
AngF	15
N div	32 ...
Qtd	1
Calcular 3D	Sim
e	1 (Aço) ...



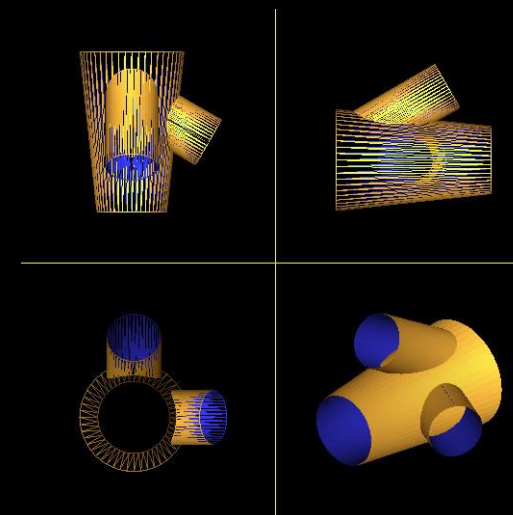
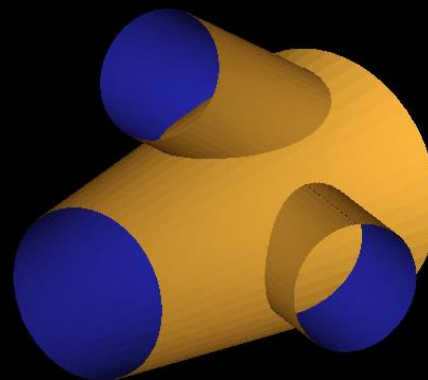
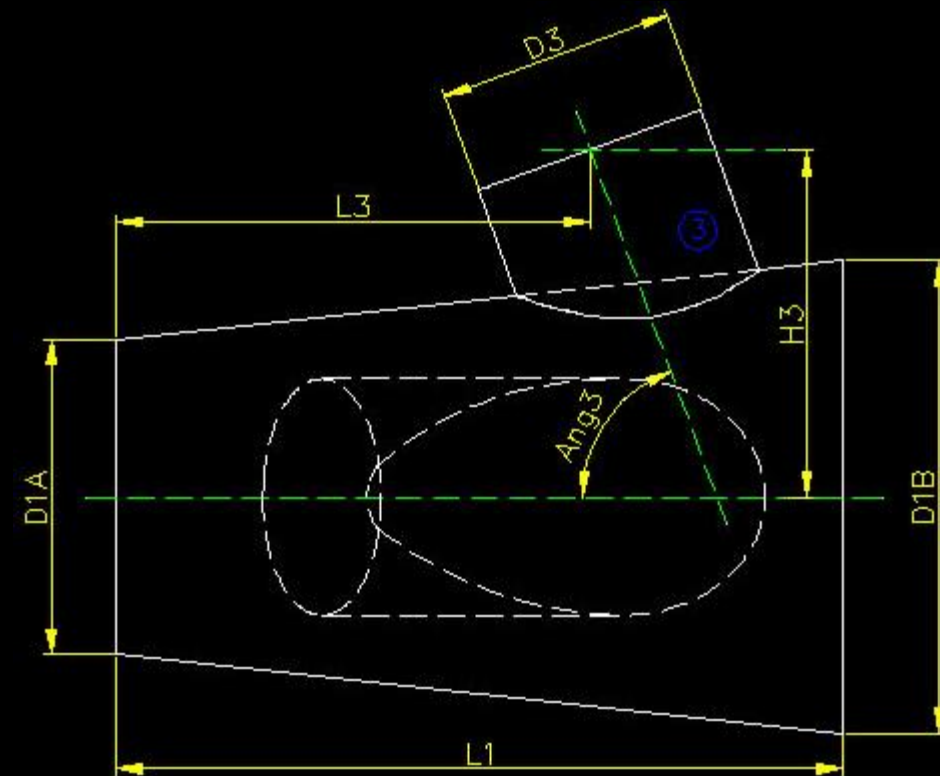
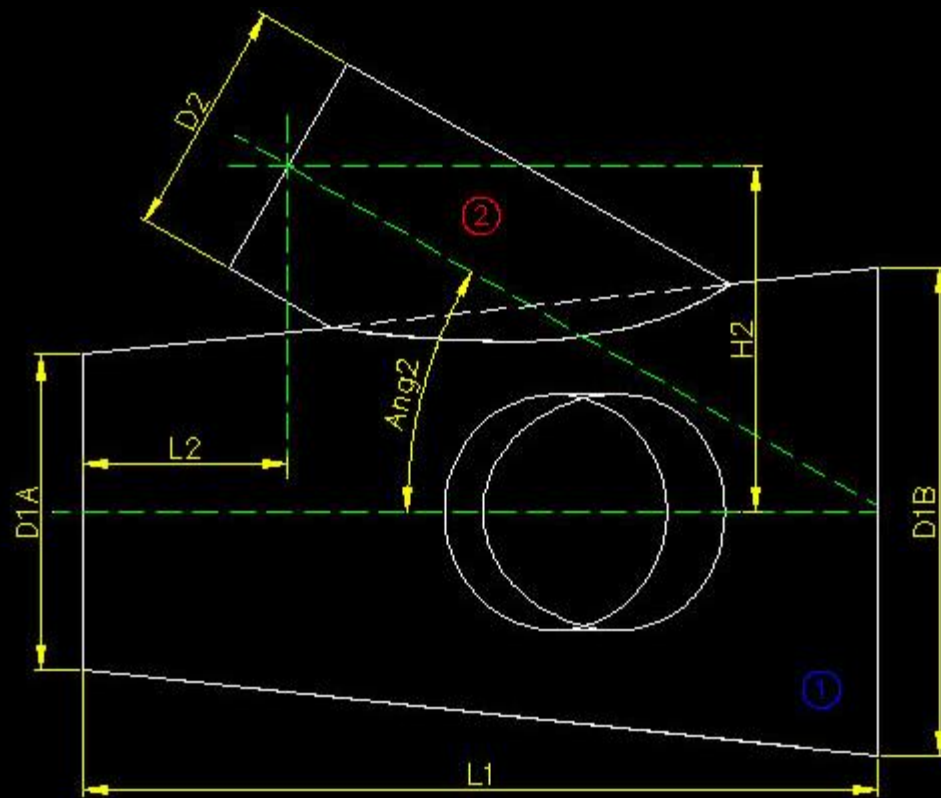
186 - Dupla Intersecção Cilindro/Transição Cil. Oval

D1	1000
D2	750
D3	750
L	2700
K1	1350
K2	1350
H1	1000
H2	850
B1	1500
B2	1400
A1	500
A2	400
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



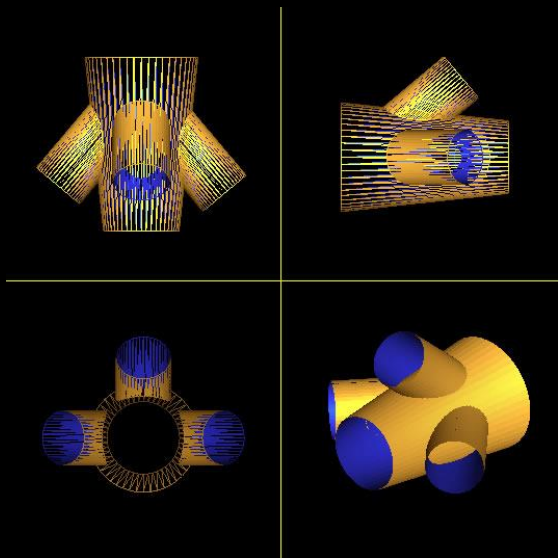
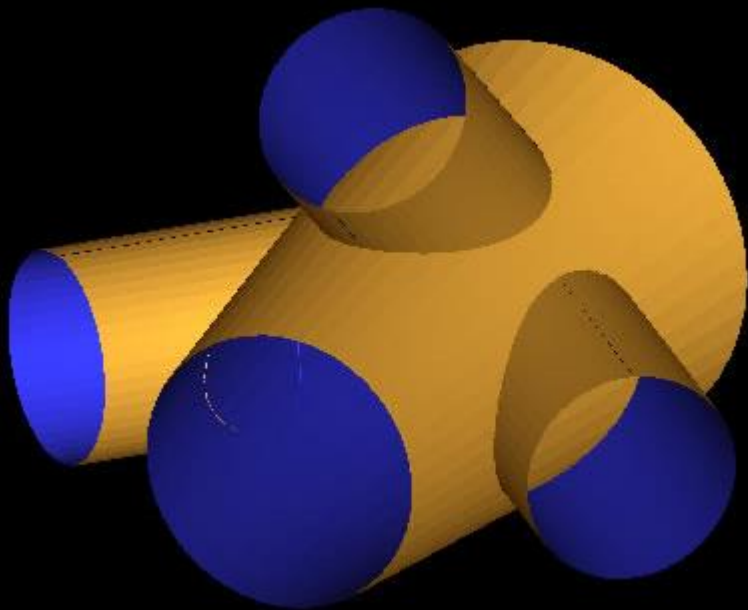
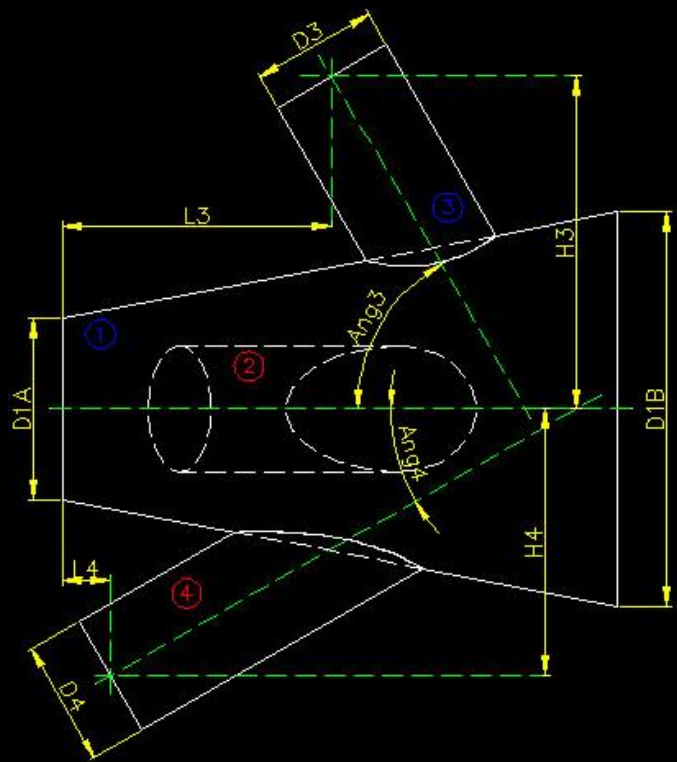
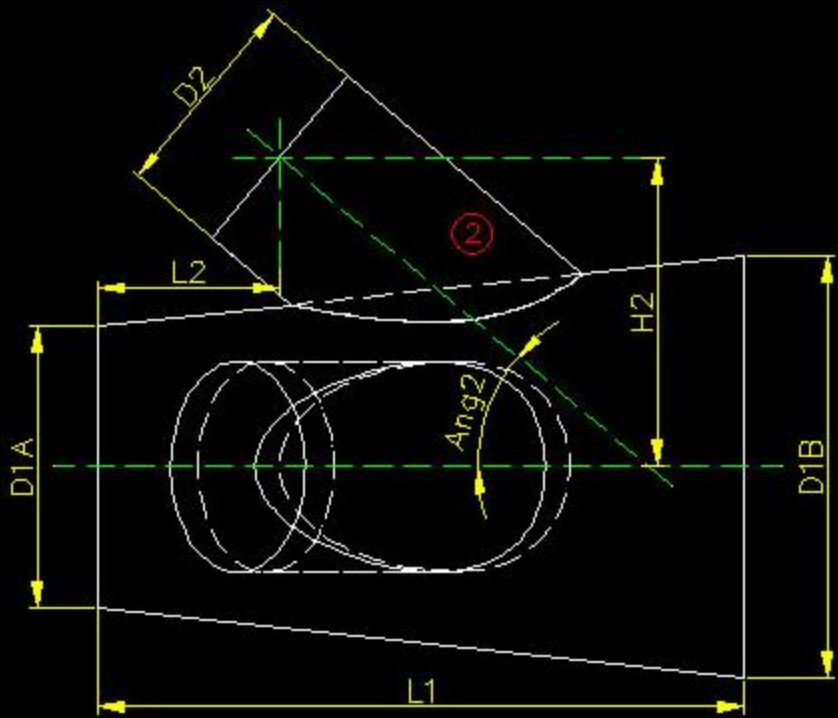
187 - Dupla Intersecção Cone/Cilindros Inclinados

D1A	1000
D1B	1500
D2	750
L1	2300
L2	650
H2	1100
Ang2	30
D3	750
L3	850
H3	1100
Ang3	30
Ndiv1	32 ...
Ndiv2	32 ...
Ndiv3	32 ...
Qtd	1
Calcular 3D	Sim
Método	M+M ...
e1	12,7 (Aço) ...
e2	12,7 (Aço) ...
e3	12,7 (Aço) ...



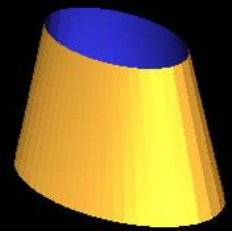
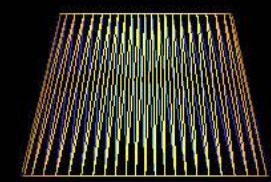
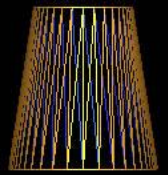
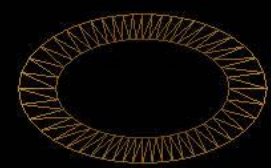
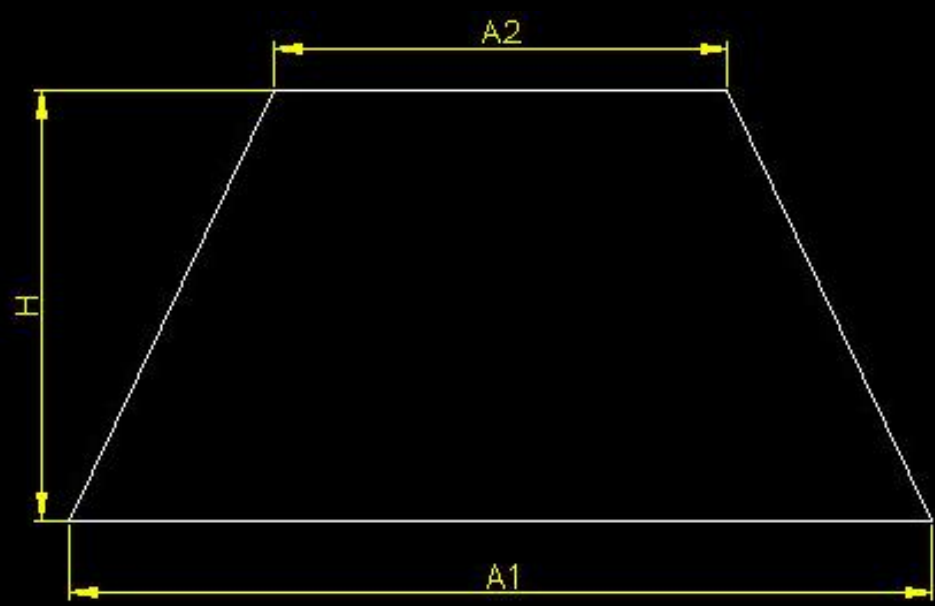
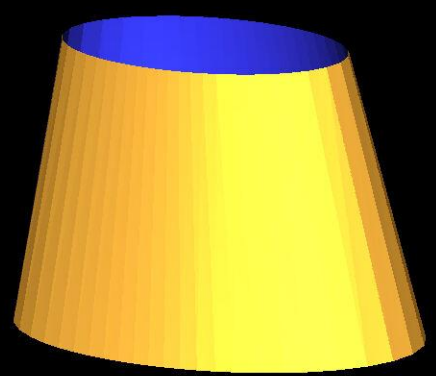
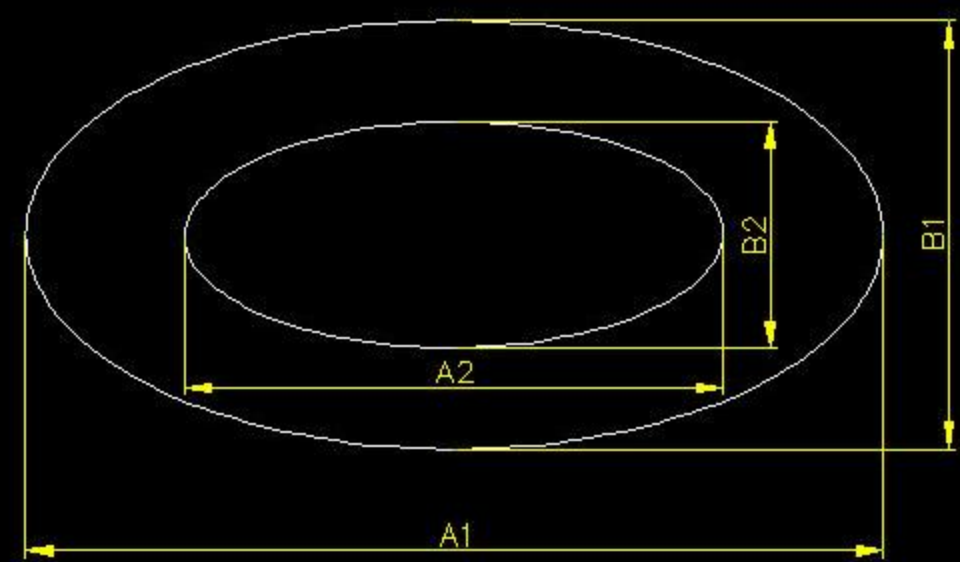
188 - Tripla Intersecção Cone/Cilindros Inclinados

D1A	1000	Ndiv2	32	...
D1B	1500	Ndiv3	32	...
D2	750	Ndiv4	32	...
L1	2300	Qtd	1	
L2	650	Calcular 3D	Sim	
H2	1100	Método	M+M	...
Ang2	30	e1	12,7 (Aço)	...
D3	750	e2	12,7 (Aço)	...
L3	500	e3	12,7 (Aço)	...
H3	1100	e4	12,7 (Aço)	...
Ang3	30			
D4	750			
L4	400			
H4	1100			
Ang4	30			
Ndiv1	32			...



192 - Transição Elipse/Elipse

A1	2000
B1	1200
A2	1400
B2	800
H	1300
N div	32 ...
Qty	1
Calcular 3D	Sim ▼
e	1 (Aço) ...



193 - Transição Retângulo/Elipse

L

2000

A

1400

B

800

H

1300

N div

32

...

Qtd

1

Calcular 3D

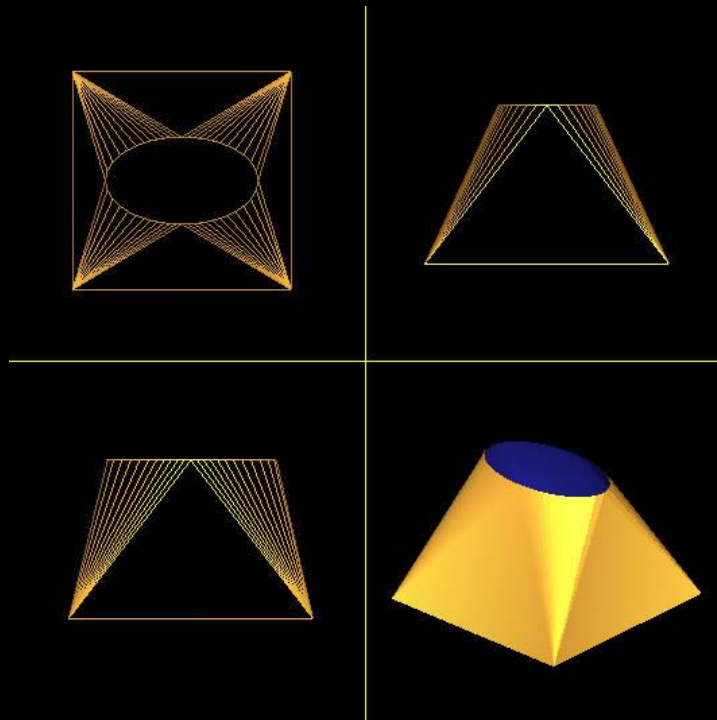
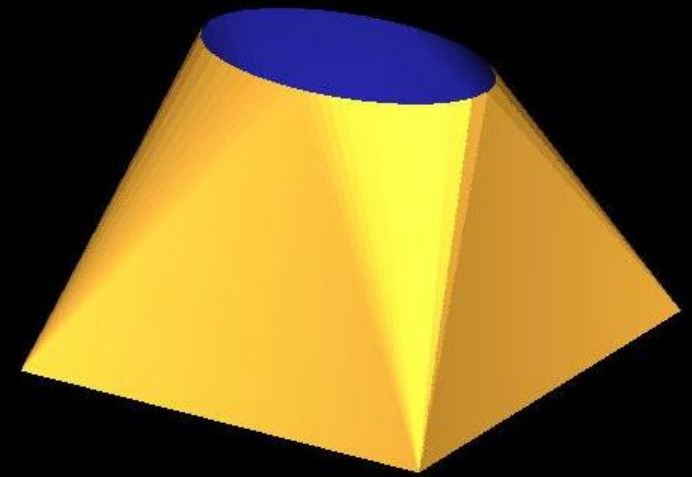
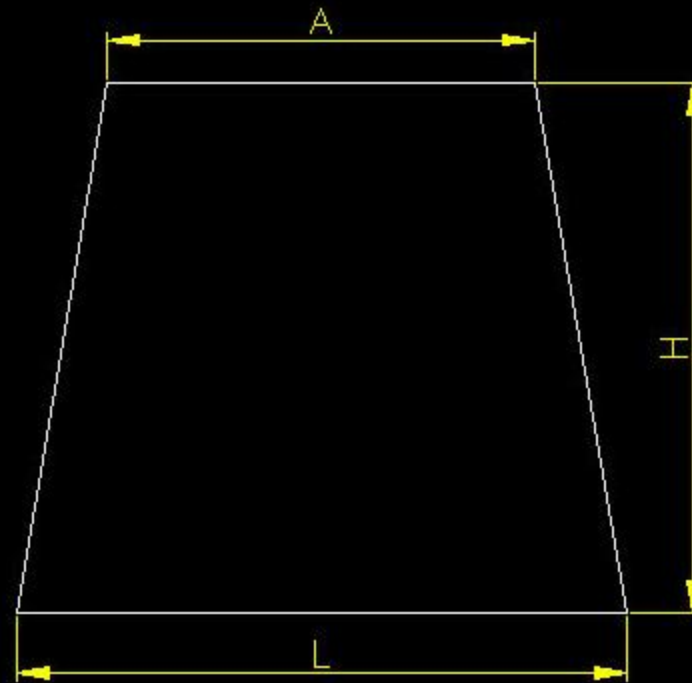
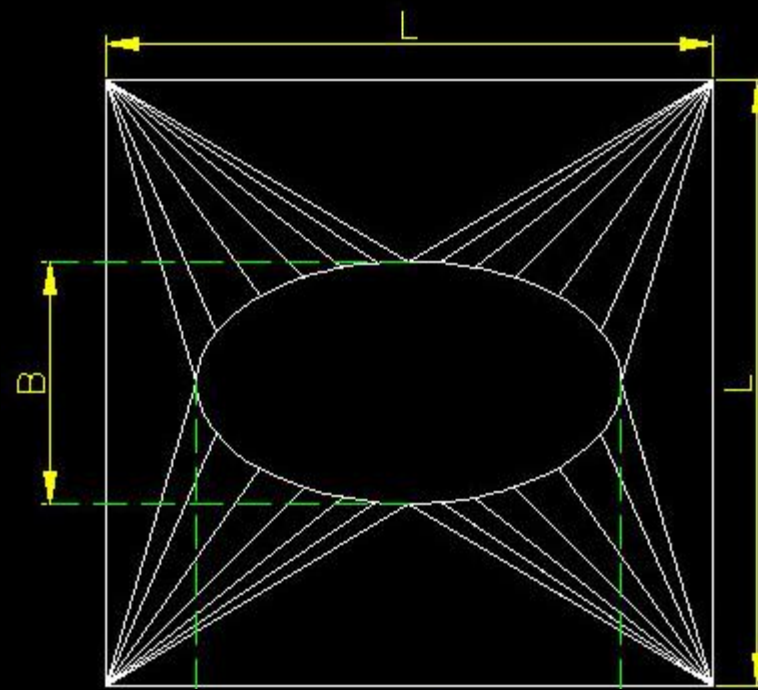
Sim

▼

e

1 (Aço)

...



194 - Transição Elipse/Elipse Exc.

A1 2000

B1 1200

A2 1400

B2 800

Ex 200

Ez 100

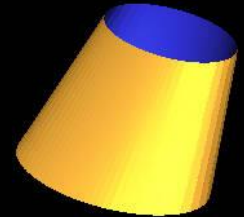
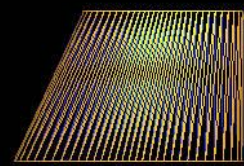
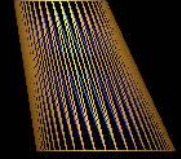
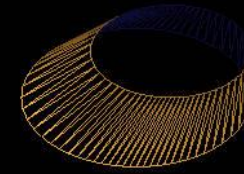
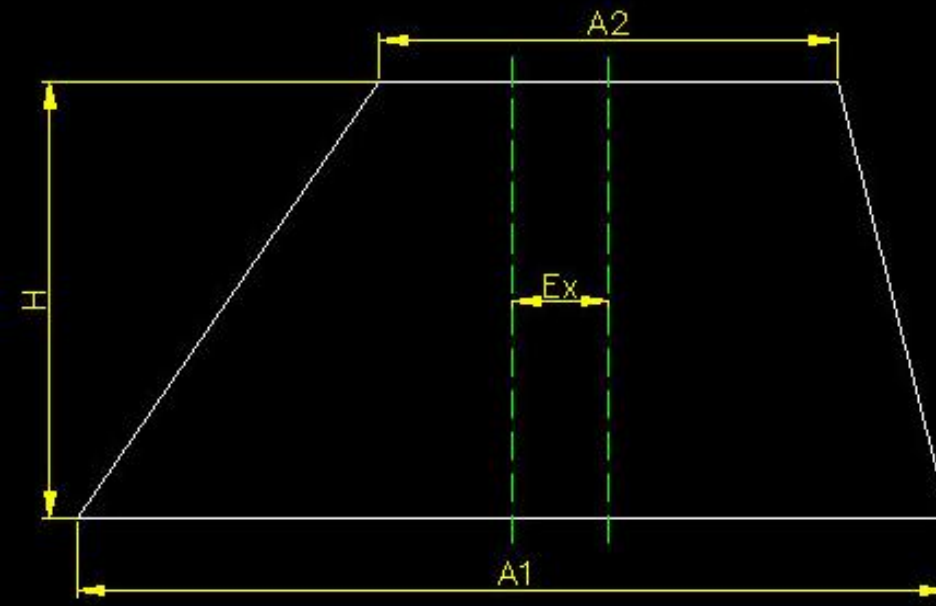
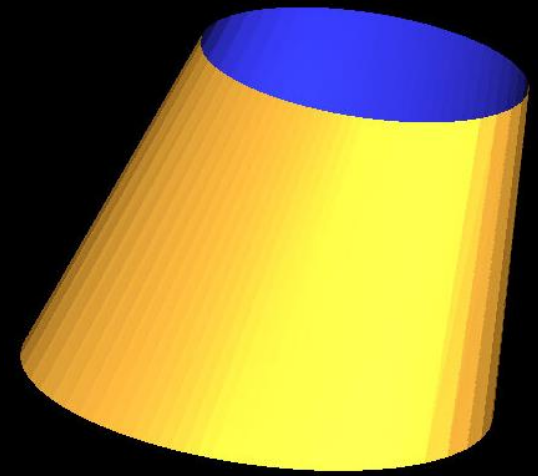
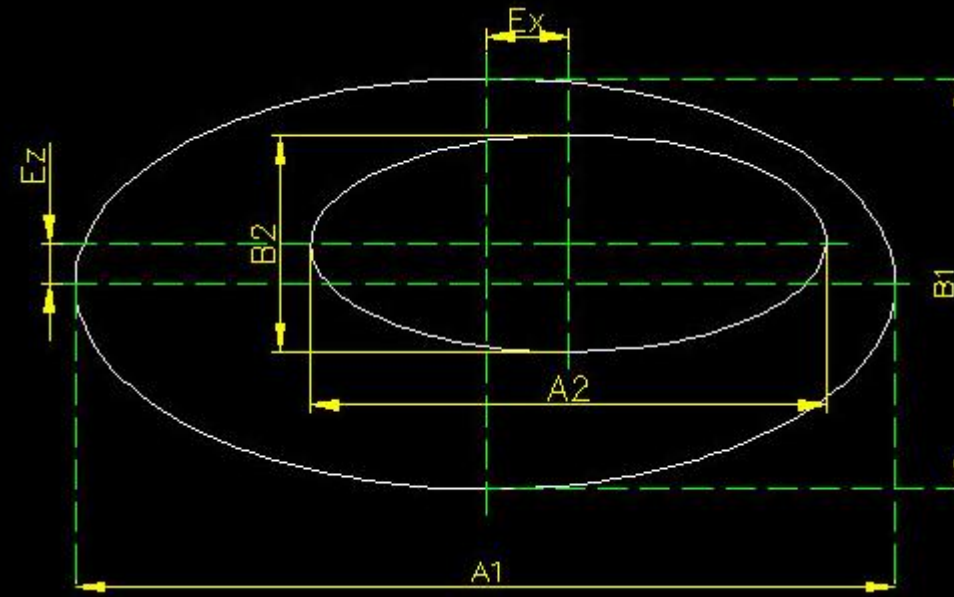
H 1300

N div 32 ...

Qtd 1

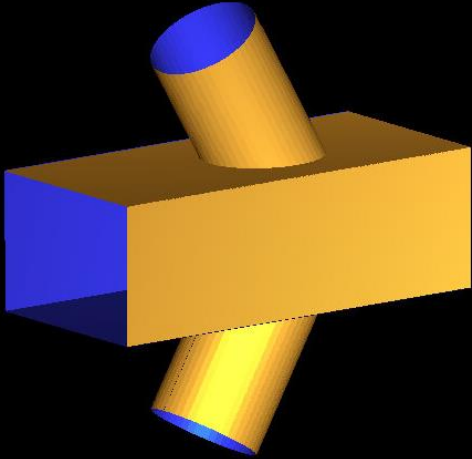
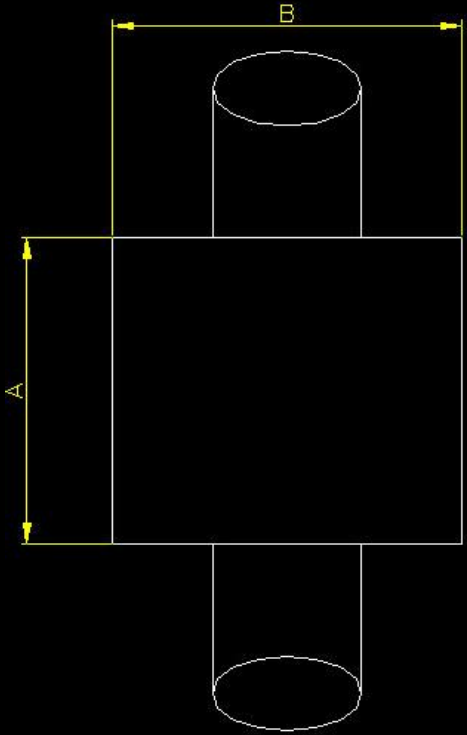
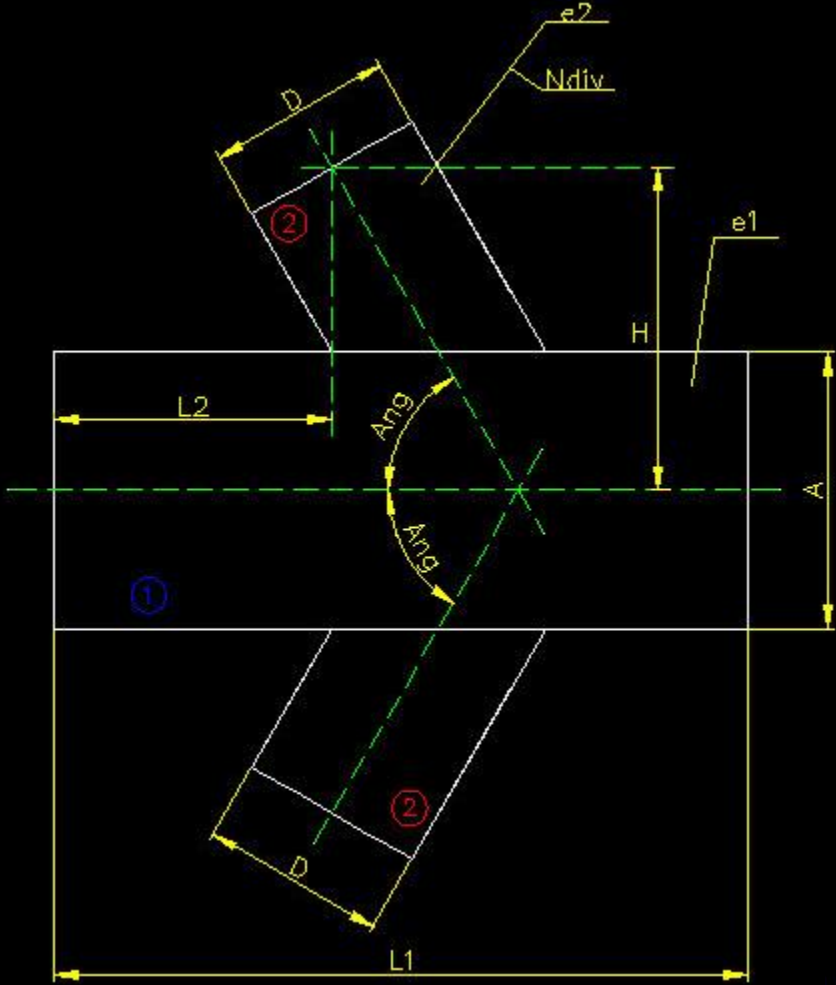
Calcular 3D Sim ▼

e 1 (Aço) ...



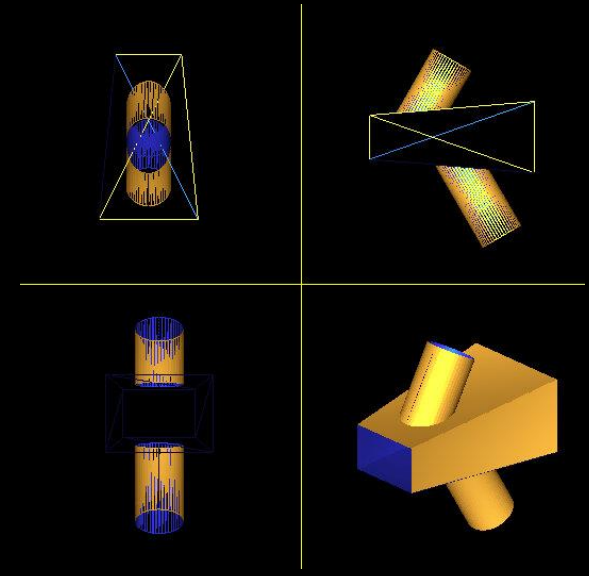
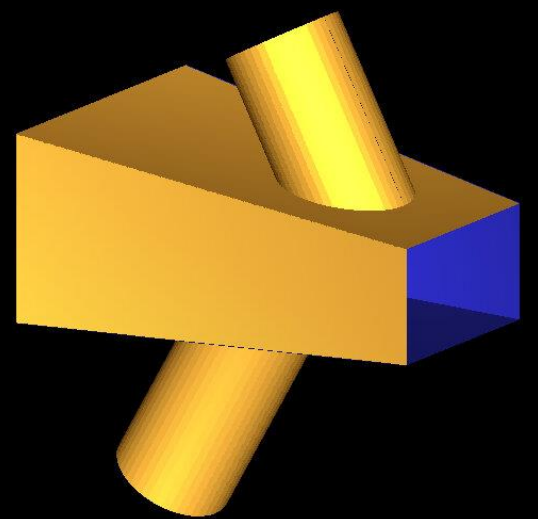
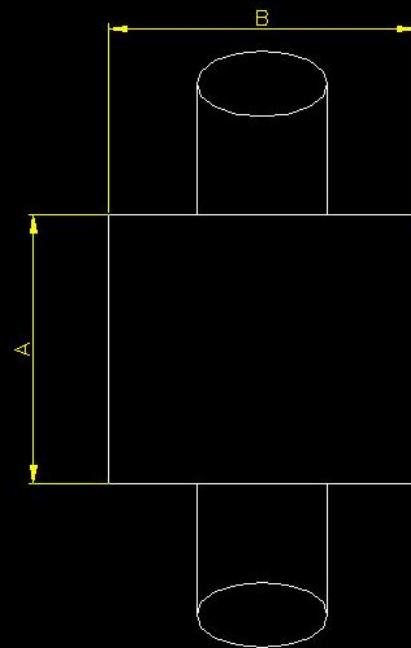
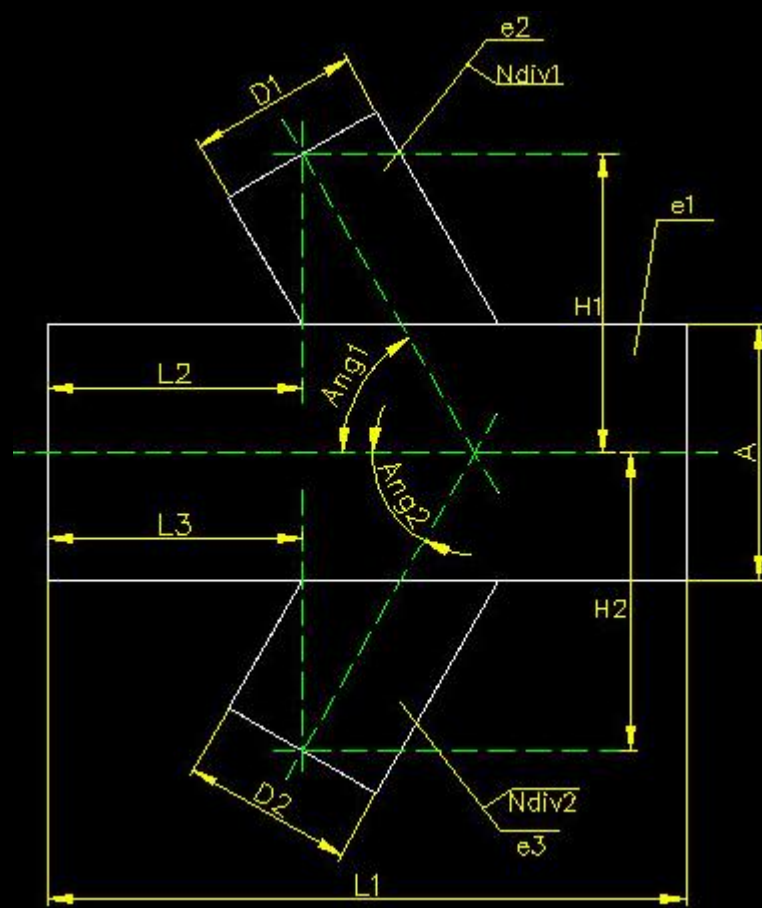
198 - Dupla Intersecção em Retângulo

A	500	
B	700	
D	400	
L1	1500	
L2	600	
H	700	
Ang	60	
Ndiv	16	...
Qty	1	
Calcular 3D	Sim	
Método	M+M	...
e1	10 (Aço)	...
e2	8 (Aço)	...



199 - Dupla Intersecção Exc. em Retângulo

A	500
B	700
D1	400
D2	400
L1	1500
L2	600
L3	400
H1	700
H2	900
Ang1	60
Ang2	60
Ndiv1	16 ...
Ndiv2	16 ...
Qty	1
Calcular 3D	Sim
Método	M+M ...
e1	6,4 (Aço) ...
e2	6,4 (Aço) ...
e3	6,4 (Aço) ...



Lista simplificada de las 235 formas:



001 - Transición Rect/Círc genérica



002 - Transición Rect/Círc alineada



003 - Transición Cuadrado Círculo



004 - Transición Rect/Círc bialineada



005 - Transición Rect/Círc 90° inclinada



006 - Transición Rectángulo Círculo



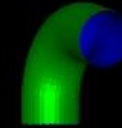
007 - Transición Rect/Círc 90° alineada



008 - Transición Rect/Círc 90°



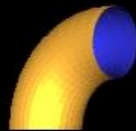
009 - Transición Cuadrado/Círc Homogénea



010 - Curva de Sectores Genérica



011 - Curva de Sectores



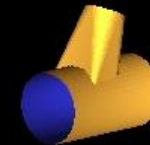
012 - Curva de Sectores 90°



013 - Curva 90° Ri igual D 3-sectores



014 - Curva 90° Ri igual 2D 5-sectores



015 - Int. de Transición Rect/círc en Cilindro



016 - Desvío Paralelo



017 - Desvío Alineado



018 - Cilindro



019 - Helicoide



020 - Soporte recipiente de presión



021 - Cilindro Cortado por Plano



022 - Cilindro cortado en los
Extremos



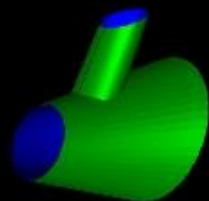
023 - Curva Directa 90°



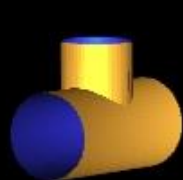
024 - Curva Directa



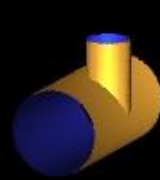
025 - Desvío Circular Paralelo



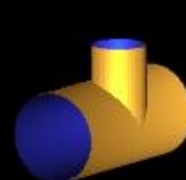
026 - Intersección Cono/Cono
genérica



027 - Intersección
Cilindro/Cilindro



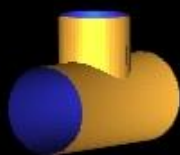
028 - Intersección Cil/Cil
excéntrica



029 - Intersección Cil/Cil
alineada 90°



030 - Intersección Cil/Cil en
ángulo



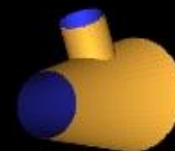
031 - Int. Tubos Listos Inclinada



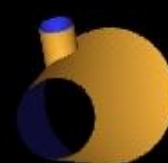
032 - Intersección Cilindro/Cono 90°



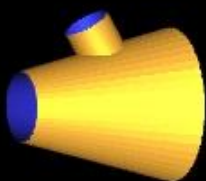
033 - Intersección Cilindro/Cono
90° alineada



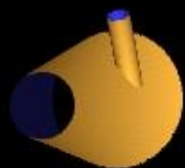
034 - Intersección Cil/Cono
apoyada



035 - Intersección Cil/Cono
apoyada excéntrica



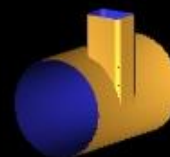
036 - Intersección Cil/Cono



037 - Intersección Cil/Cono 90°
excéntrica



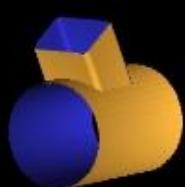
038 - Intersección Rect/Cil 90°



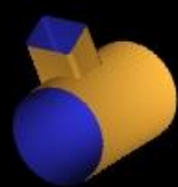
039 - Intersección Rect/Cil 90°
Alineada



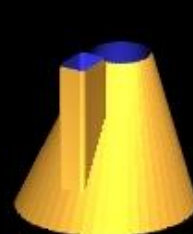
040 - Intersección Rect/Cil 90°
Excéntrica



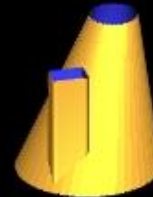
041 - Intersección Rect/Cil 90° en
Ángulo



042 - Intersección Rect/Cil 90°
Ángulo Excéntrica



043 - Intersección Rect/Cono 90°



044 - Intersección Rect/Cono 90
° excéntrica



045 - Intersección Rect/Cono



046 - Intersección Rect/Cono
excéntrica



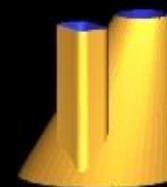
047 - Intersección Rect/Cono
inclinado



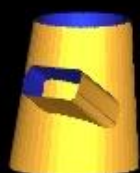
048 - Intersección Rect/cono
inclinado excéntrica



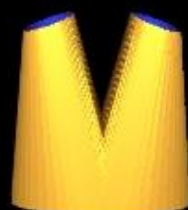
049 - Intersección Rect/Cono
apoyada



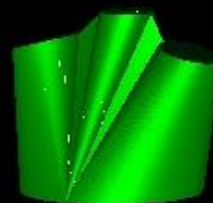
050 - Intersección Rect/Cil 90°
apoyada excéntrica



051 - Intersección Rect/Cono
inclinado apoyada excéntrica



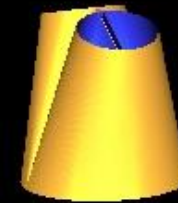
052 - Bifurcación cónica
(pantalón)



053 - Trifurcación Genérica



054 - Trifurcación Unida



055 - Bifurcación Unida



056 - Bifurcación Unida Salida
Paralela



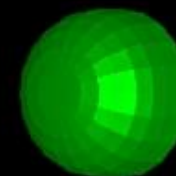
057 - Caja Espiral



058 - Tronco de Cono



059 - Helicoide Cónico



060 - Tapa Torisférica Genérica



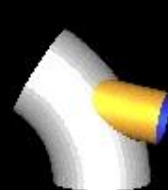
061 - Tapa Torisférica ASME 6%



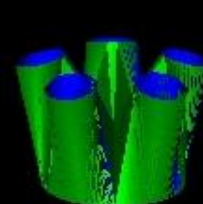
062 - Tapa Torisférica ASME 10%



063 - Trifurcación Plana



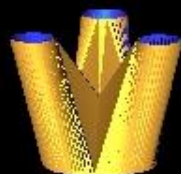
064 - Intersección Cilindro Curva



065 - Multifurcación Genérica



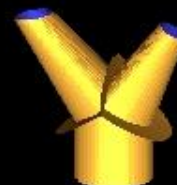
066 - Multifurcación Doble



067 - Multifurcación Triple



068 - Multifurcación Cuádruple



069 - Bifurcación Especial



070 - Tronco de Cono Excéntrico



071 - Rotor Centrífugo



072 - Tronco de Pirámide



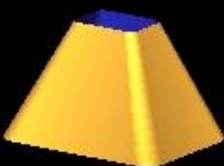
073 - Curva con Reducción



074 - Esfera



075 - Transición Rect/Circ
esquinas redondeadas



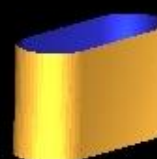
076 - Transición Rect/Rect
esquinas redondeadas



077 - Transición Rect/Rect
esquinas redondeadas inclinada



078 - Transición Oval/ Circ



079 - Tubo Oval



080 - Bifurcación Cilindro
Cilindro



081 - Intersección Cono en Cilindro



082 - Reducción tipo 2



083 - Reducción tipo 1



084 - Palas de Rotor



085 - Tronco de Pirámide Bocas Paralelas



086 - Brida Circular



087 - Chapa rectangular



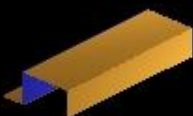
088 - Chapa triangular



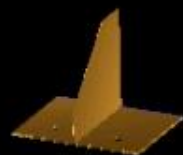
089 - Brida Rectangular



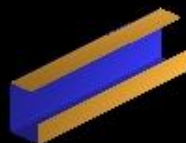
090 - Soporte Doble con Orificio



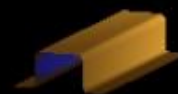
091 - Perfil 1



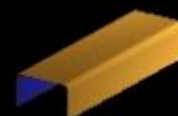
092 - Soporte Plano



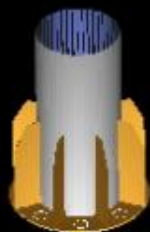
093 - Perfil G



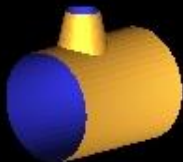
094 - Perfil Omega



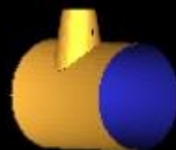
095 - Perfil U



096 - Zapata Circular



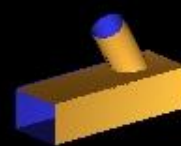
097 - Intersección Cono en Cilindro 90°



098 - Intersección Cono/Cil 90° Excéntrica



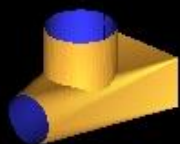
099 - Curva de sectores 180°



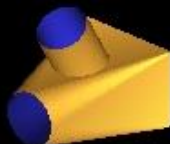
100 - Intersección Cil/Rectángulo Excéntrico



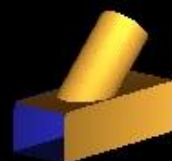
101 - Pórtico



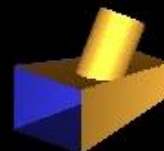
102 - Intersección
Cilindro/Transición 90°



103 - Intersección Cil/Transición
90° en Ángulo



104 - Intersección
Cilindro/Rectángulo



105 - Intersección Cil/Rect
Transición



106 - Intersección Cil/Transición
Exc



107 - Tronco Oval



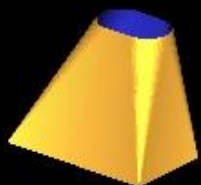
108 - Tronco Oval Excéntrico



109 - Tronco Oval Exc Inclinado



110 - Transición Rect/Oval



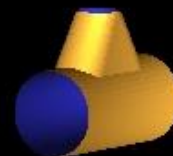
111 - Transición Rect/Oval
Excéntrica



112 - Transición Rect/Oval Exc
Inclínada



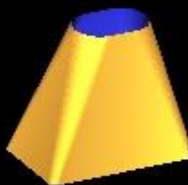
113 - Tronco Oval Invertido



114 - Int. de Transición Cil/Oval
en Cilindro



115 - Transición Rect. Esquinas
Redondeadas/Oval



116 - Transición Rect. Esquinas
Redondeadas/Oval Exc.



117 - Transición Rect. Esquinas
Red./Oval Exc. Inclínado



118 - Transición Rect. Esquinas
Red./Oval Exc.



119 - Transición Rect. Esquinas
Red./Circ. Exc. Inclínado



120 - Int. Cil.
Inclínado/Transición Oval/Circ.



121 - Int. Cil. Inclinado
Exc./Transición Oval/Círc.



122 - Int. Cil./Transición
Oval/Círc.



123 - Intersección
Cilindro/Transición Círc/Rect



124 - Int. Cil. Lateral/Transición
Oval/Círc.



125 - Int. de Cil. en Transición
Oval/Círc. Exc.



126 - Intersección Tubo
Oval/Tubo Oval



127 - Curva de Sectores Oval 90°



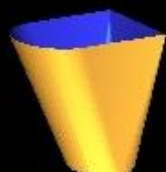
128 - Curva de Sectores Oval
Invertida 90°



129 - Chapa con Corte Elíptico



130 - Elipse



131 - Transición Semi Oval /
Círculo



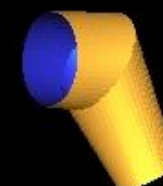
132 - Transición Oval para
Cilindros



133 - Transición excéntrica Oval
para Cilindros



134 - Transición Círculo/Oval
para cilindros



135 - Curva Derecha Especial



136 - Int. Cil. én Rect/Rect con
Esquinas Rodeadas



137 - Pórtico Especial



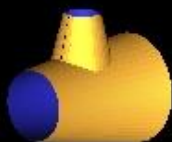
138 - Int. Tubo Oval én
Transición Ret/Círculo



139 - Int. Tubo Oval én
Transición Ret/Oval



140 - Curva de segmentos Oval
90° con Reducción



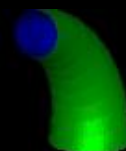
141 - Intersección de Cono/Cono Alineada



142 - Cilindro en Chapa con Corte Elíptico



143 - Espiral



144 - Curva Cónica Excéntrica Genérica - Re



145 - Cono Excéntrico Apoyado



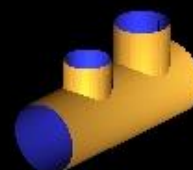
146 - Curva Oval con Reducción con n-sectores



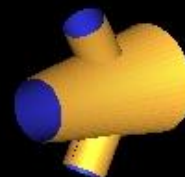
147 - Tubo de Succión - Rm



148 - Tubo de Succión - Rayo variable



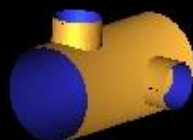
149 - Dupla Intersección en Cilindro



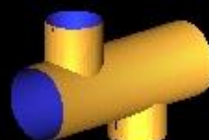
150 - Dupla Intersección en Cono



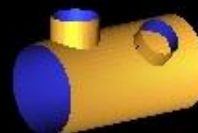
151 - Mezclador



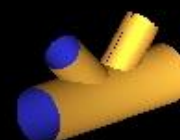
152 - Dupla Intersección en Cilindro 2



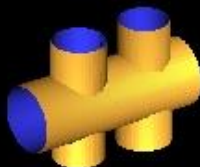
153 - Dupla Intersección en Cilindro 3



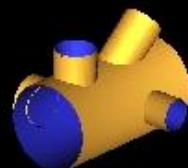
154 - Dupla Intersección Cilíndrica em Ángulo



155 - Dupla Intersección Cilíndrica em Ángulo 2



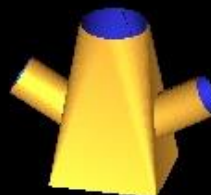
156 - Multipla Intersección Cilíndrica



157 - Multipla Intersección Cilíndrica 2



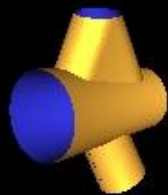
158 - Palas rectas



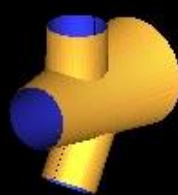
159 - Dupla Intersección en transición Rect/Red



160 - Rotor Palas rectas



161 - Doble Intersección en Cono 2



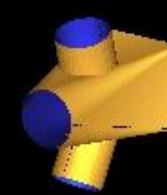
162 - Doble Intersección en Cono 3



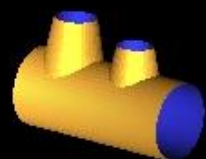
163 - Curva Rectangular en placas 90°



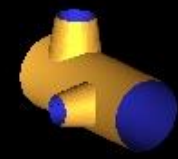
164 - Curva Rectangular en placas



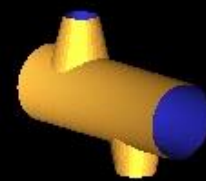
165 - Doble Intersección en Transición Rect/Red 2



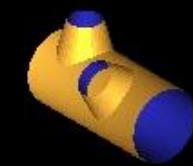
166 - Intersección de Conos en Cilindro



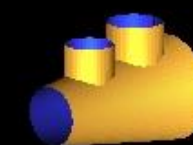
167 - Intersección de Conos en Cilindro 2



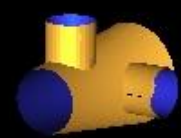
168 - Intersección de Conos en Cilindro 3



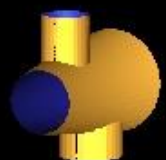
169 - Intersección de Conos/Cilindro en ángulo



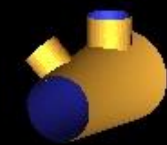
170 - Intersección de Cilindros en Cono



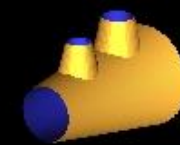
171 - Intersección de Cilindros en Cono 2



172 - Intersección de Cilindros en Cono 3



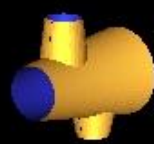
173 - Intersección de Cilindros/Cono en ángulo



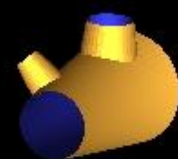
174 - Intersección de Conos/Cono



175 - Intersección de Conos/Cono 2



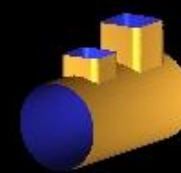
176 - Intersección de Conos/Cono 3



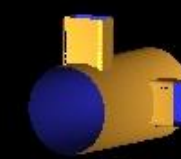
177 - Intersección de Conos/Cono en ángulo



178 - Tubo elíptico



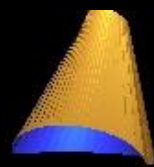
179 - Int. Rect. con Esquinas redondeadas/Cilindro



180 - Int. Rect. con Esquinas redondeadas/Cilindro 2



181 - Trifurcación Excéntrica Inclínada



182 - Transición lateral de la trifurcación



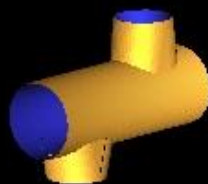
183 - Intersección Cilindro Transición Cil/Oval Exc.



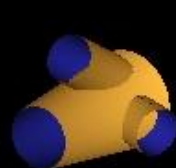
184 - Intersección Cono/Cono Inclínada



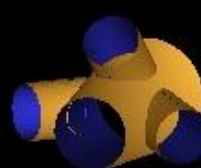
185 - Transición Central de la Trifurcación



186 - Doble Intersección Cilindro/Transición Cil. Oval



187 - Doble Intersección Cono/Cilindros Inclínados



188 - Tripla Intersección Cono/Cilindros Inclínados



189 - Intersección Cono/Conos inclinados



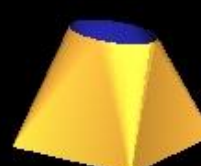
190 - Transición Rectángulo/Semi-oval



191 - Transición Rect./Semi-oval Exc. Inclínada



192 - Transición Elipse/Elipse



193 - Transición Rectángulo/Elipse



194 - Transición Elipse/Elipse Exc.



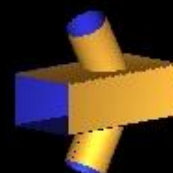
195 - Transición Elipse/Elipse Exc. Inclínada



196 - Transición Rectángulo/Elipse Exc.



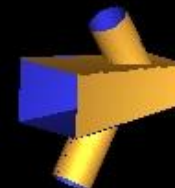
197 - Transición Rect./Elipse Exc. Inclínada



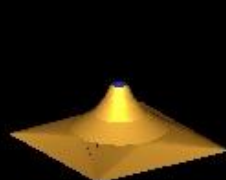
198 - Doble Intersección en Rectángulo



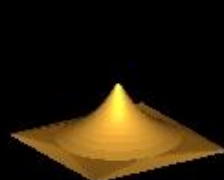
199 - Doble Intersección Exc. en Rectángulo



200 - Doble Intersección en Transición Rect./Rect.



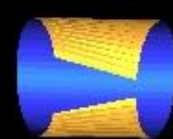
201 - Techo 1



202 - Techo 2



203 - Sector de Caja Espiral Tipo 1



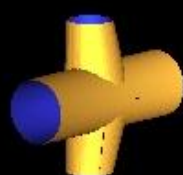
204 - Sector de caja Espiral Tipo 2



205 - Sector variable de Caja Espiral



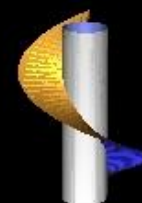
206 - Cono Excéntrico con divisiones axiales



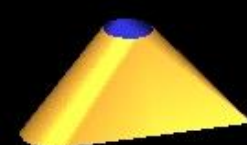
207 - Intersección de Conos Exc. en Cono



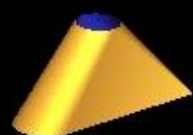
208 - Espiral tipo 2



209 - Helicoide método clásico



210 - Transición Semi-Círc./Rect para Círc.



211 - Transición Semi-Círc./Rect para Círc. Exc.



212 - Transición Semi-Círc./Rect para Círc. R1/R2



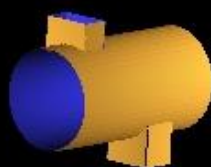
213 - Transición Semi-Círc./Rect para Círc. Exc. Inclín.



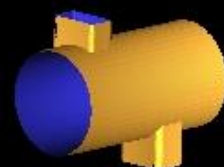
214 - Tronco de Pirámide Variable



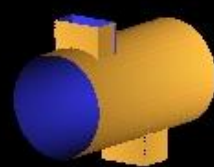
215 - Tronco de Pirámide Variable Inclín.



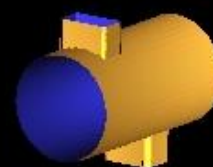
216 - Intersección de Rect. Exc. en Cilindro



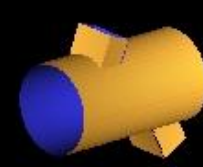
217 - Intersección de Rect. con Radio Exc. en Cilindro



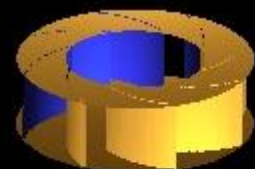
218 - Intersección de Rect en Cilindro



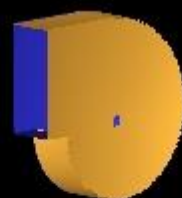
219 - Intersección de Rect con Radio en Cilindro



220 - Intersección de Rect con Ángulo en Cilindros



221 - Rotor FDS



222 - Peca Voluta FDS



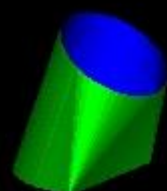
223 - Int. Cuadrado/Circ. con Cuadrado Cónico



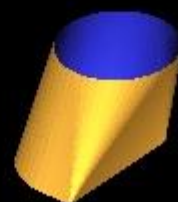
224 - Int. Cuadrado/Circ. con Cuadrado Cónico Exc.



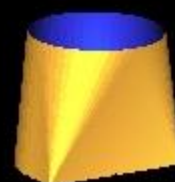
225 - Int. Cuadrado/Circ. con Cuadrado Cónico Inclín.



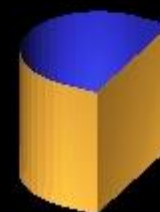
226 - Transición Genérica Semi-Circulo para Círculo



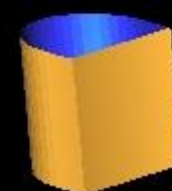
227 - Transición Alineada Semi-Circulo para Círculo



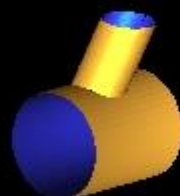
228 - Transición Semi-Círculo para Círculo



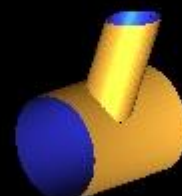
229 - Transición Semi-Círculo para Semi-Círculo



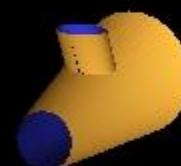
230 - Transición Semi-Círculo para Semi-Círculo Exc.



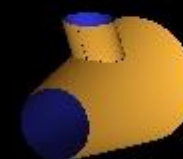
231 - Intersección Cil/Cil en ángulo Diámetro Perpendicular



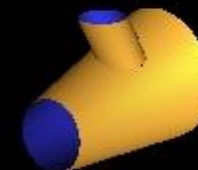
232 - Intersección Cil/Cil Diámetro Perpendicular Exc.



233 - Intersección Cil/Cono Apoyada Diámetro Perpendicular



234 - Intersección Cil/Cono Diámetro Perpendicular



235 - Intersección Cil/Cono apoyada excéntrica

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