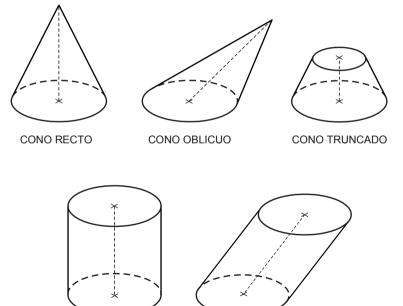
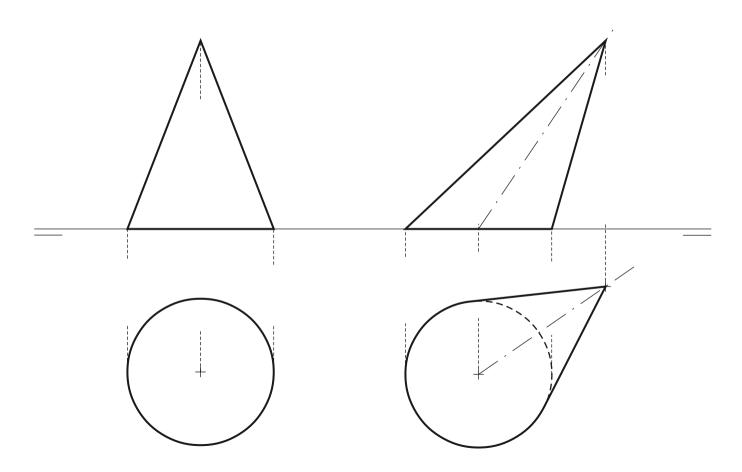
**Cono**: É unha superficie radiada na que a recta xeratriz, apoiada nun punto (vértice) móvese sobre unha directriz, unha curva plana.

**Cilindro**: É unha superficie radiada na que a recta xeratriz móvese paralelamente a si mesma, apoiada sobre dúas directrices, dúas curvas planas idénticas e situadas en planos paralelos.

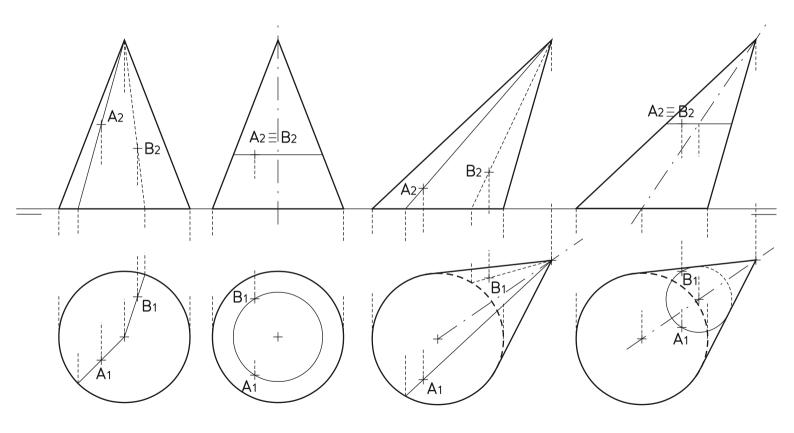


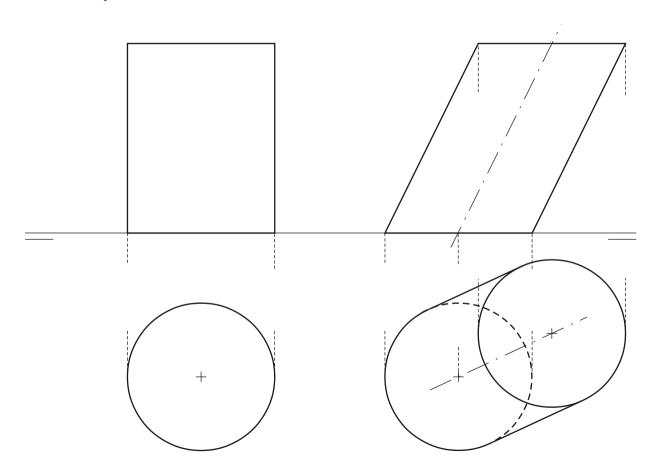
CILINDRO OBLICUO

CILINDRO RECTO

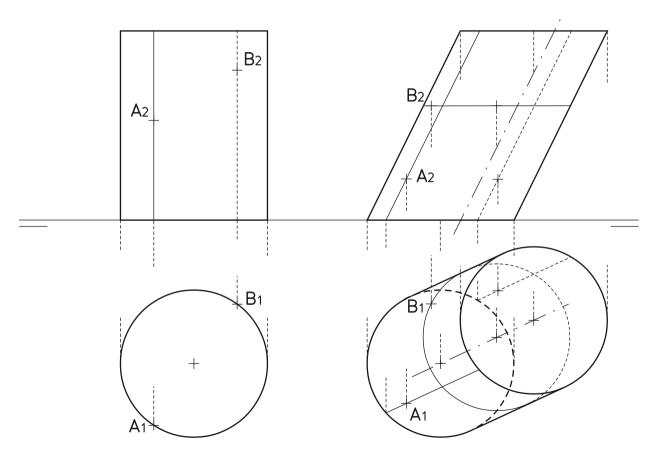


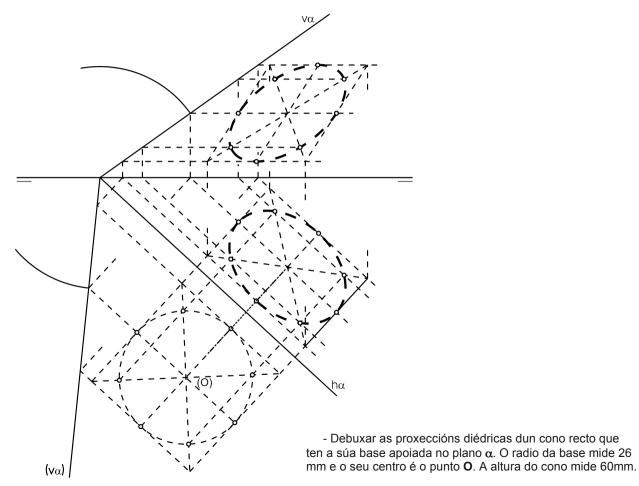
#### - PUNTOS SOBRE AS SUPERFICIES

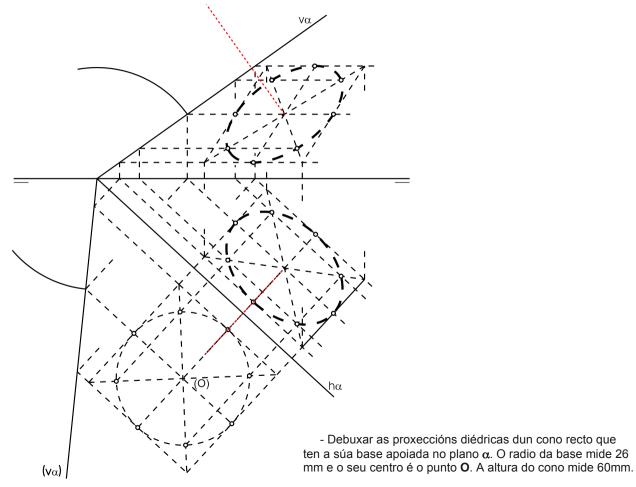


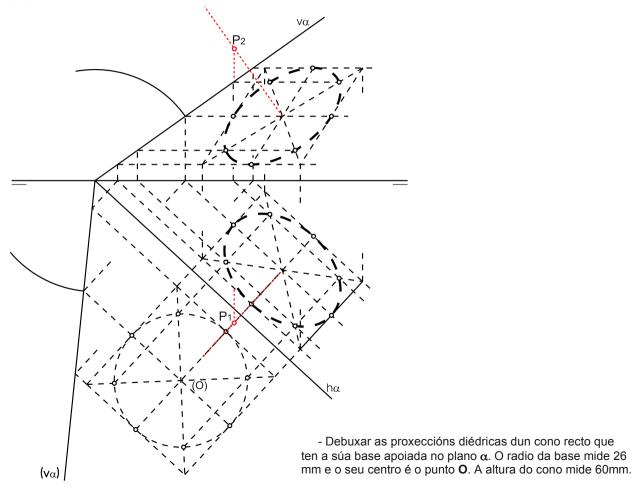


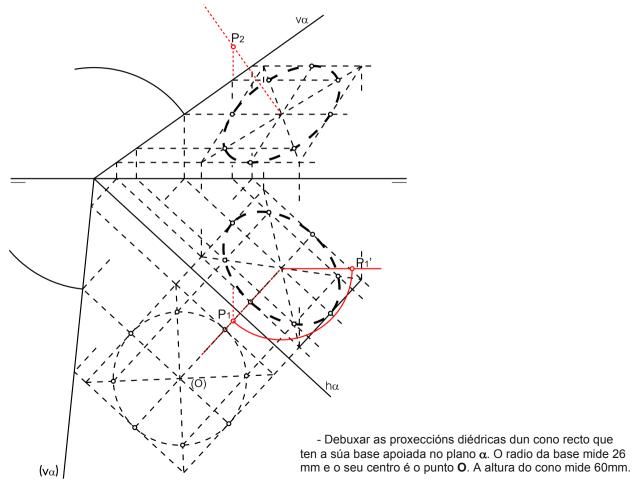


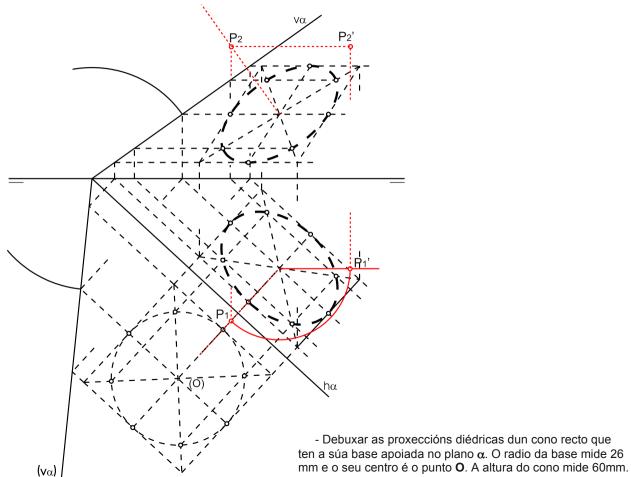


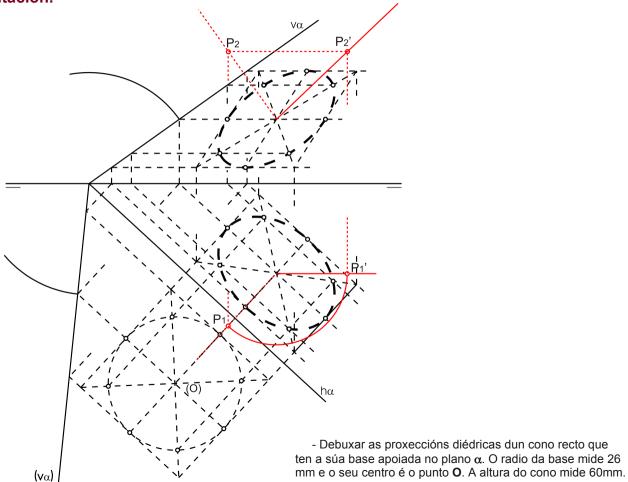


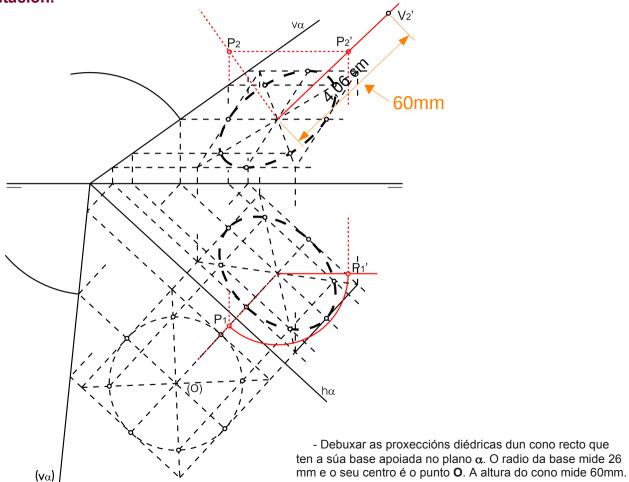


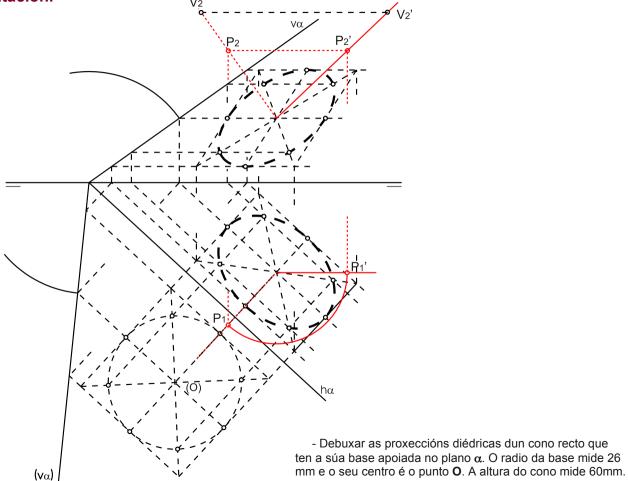


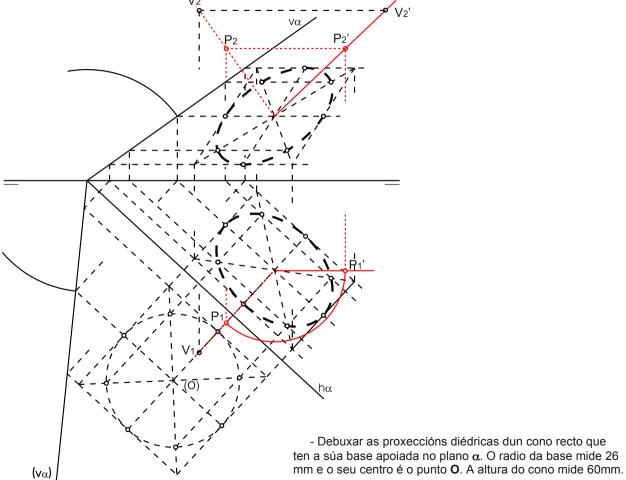










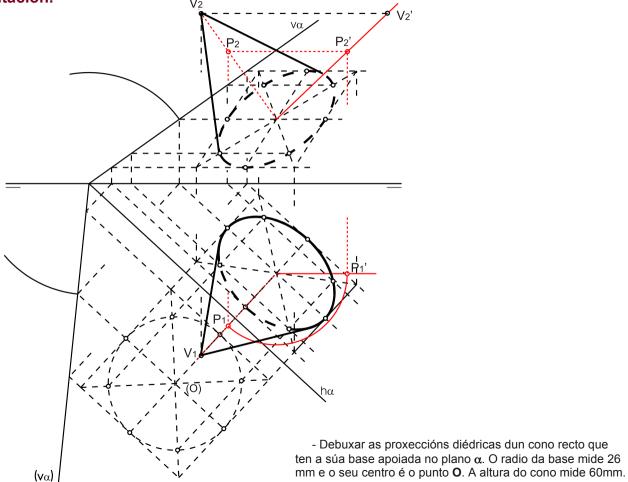


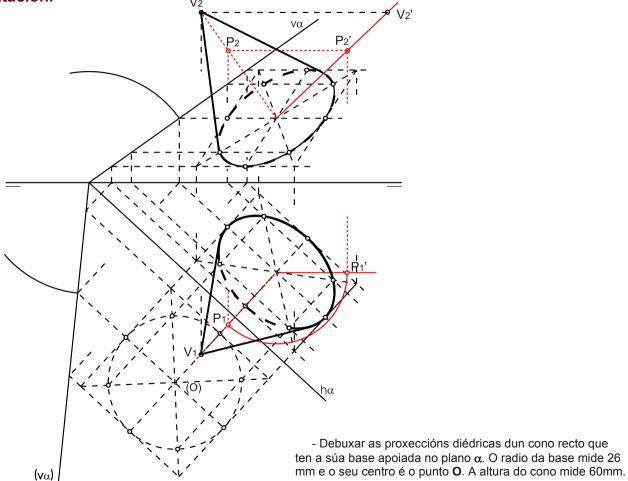
 $(v\alpha)$ 

- Debuxar as proxeccións diédricas dun cono recto que ten a súa base apoiada no plano  $\alpha$ . O radio da base mide 26 mm e o seu centro é o punto  ${\bf O}$ . A altura do cono mide 60mm.

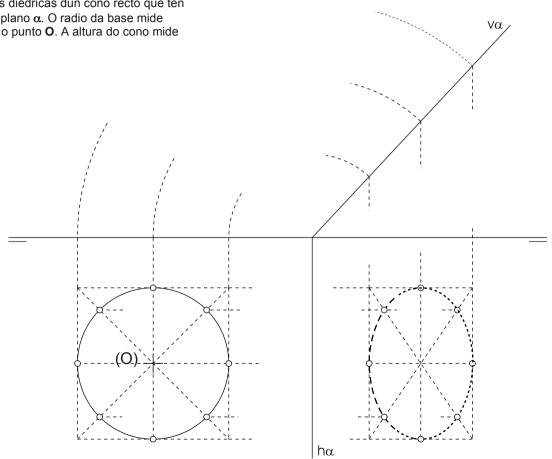
 $(v\alpha)$ 

- Debuxar as proxeccións diédricas dun cono recto que ten a súa base apoiada no plano  $\alpha$ . O radio da base mide 26 mm e o seu centro é o punto  ${\bf O}$ . A altura do cono mide 60mm.

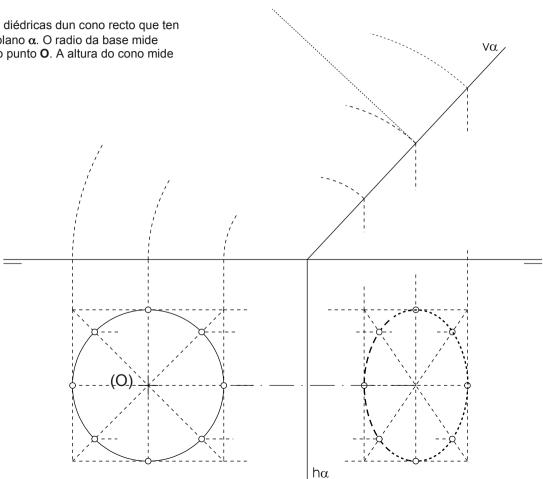




- Debuxar as proxeccións diédricas dun cono recto que ten a súa base apoiada no plano  $\alpha$ . O radio da base mide 20mm e o seu centro é o punto **O**. A altura do cono mide 52mm.



- Debuxar as proxeccións diédricas dun cono recto que ten a súa base apoiada no plano  $\alpha$ . O radio da base mide 20mm e o seu centro é o punto **O**. A altura do cono mide 52mm.

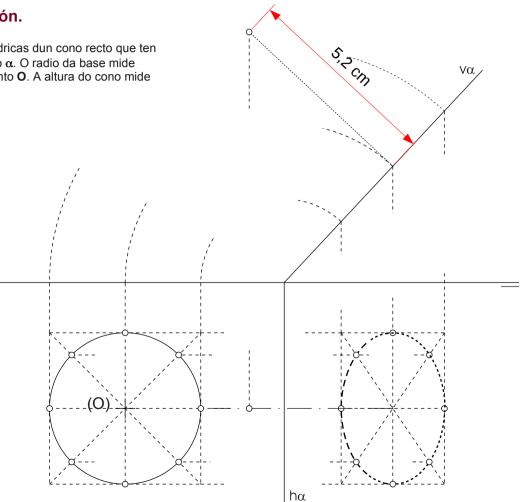


# Sistema diédrico

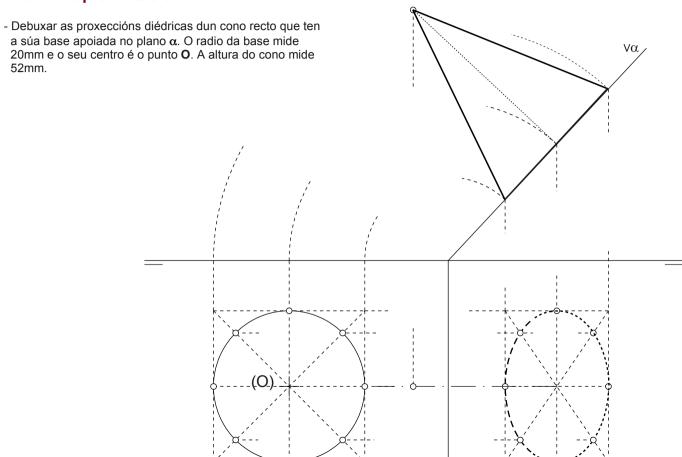
## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

# • Cono. Representación.

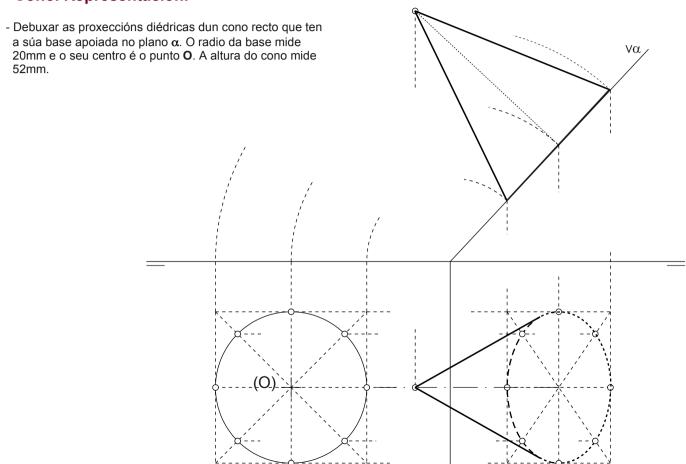
- Debuxar as proxeccións diédricas dun cono recto que ten a súa base apoiada no plano  $\alpha$ . O radio da base mide 20mm e o seu centro é o punto  ${\bf O}$ . A altura do cono mide 52mm.



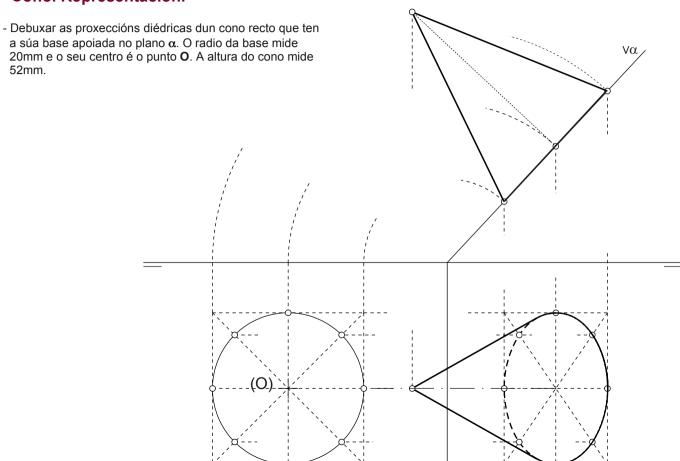
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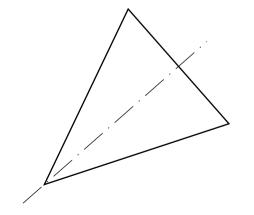


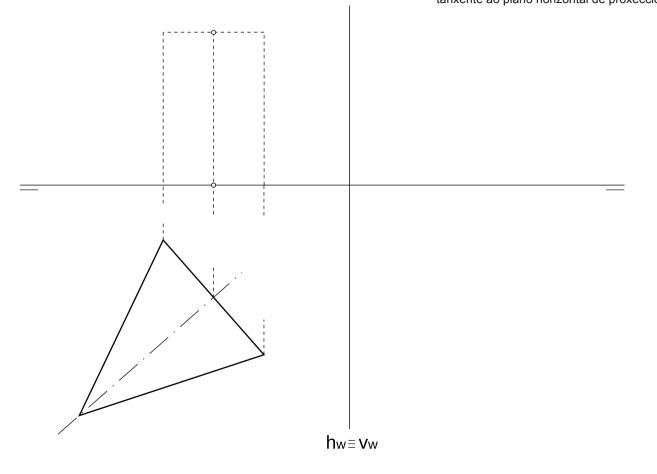
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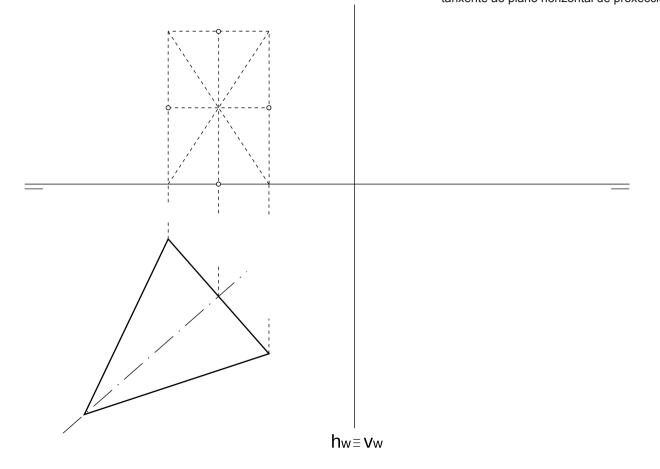


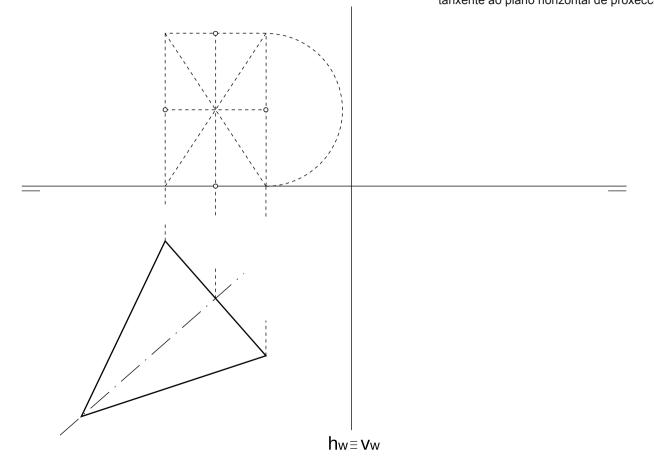
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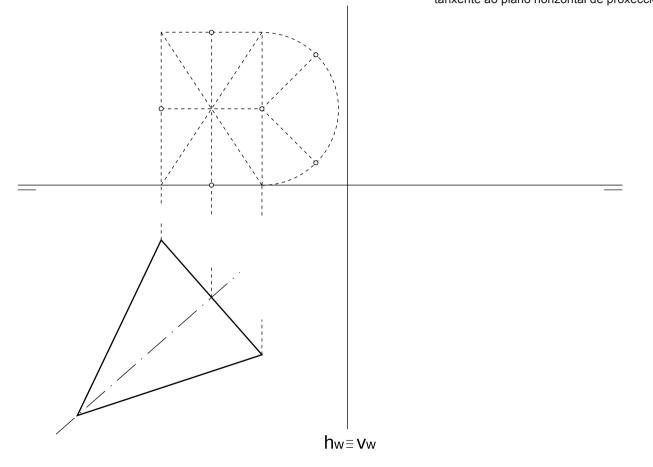


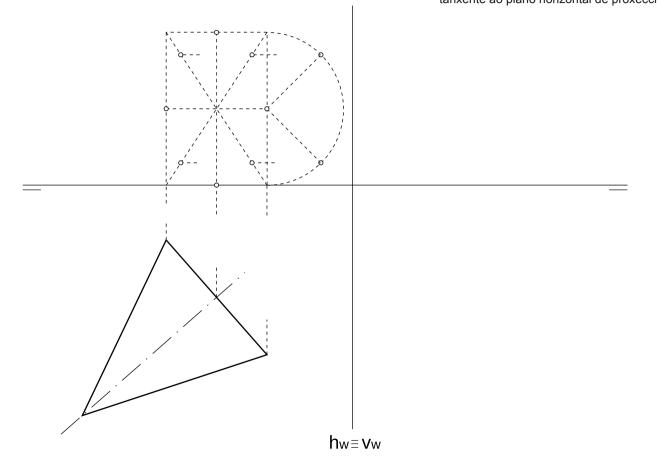


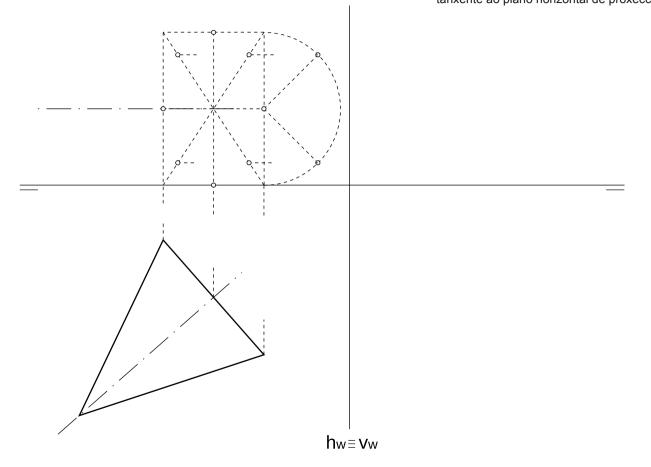


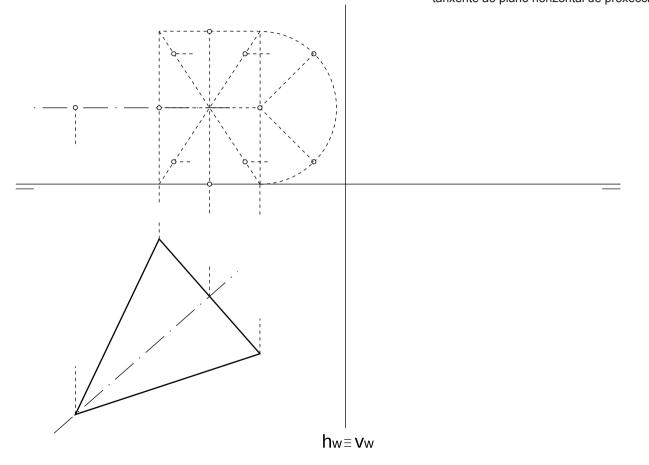


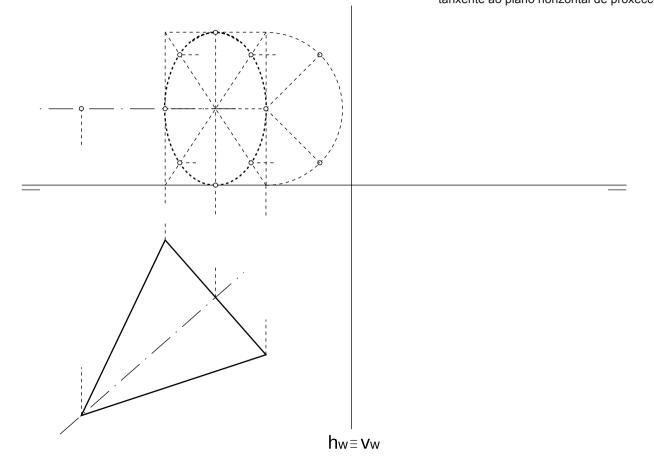


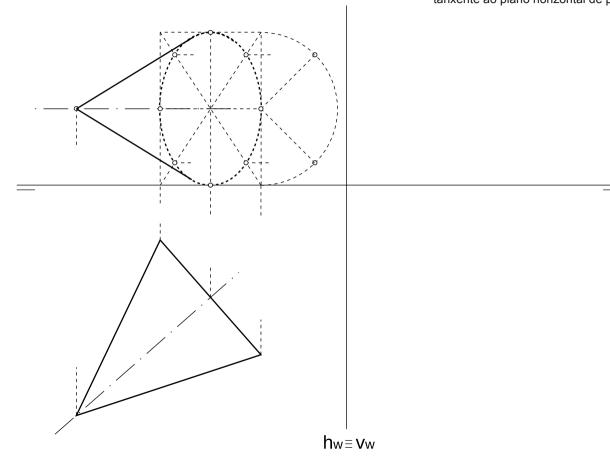


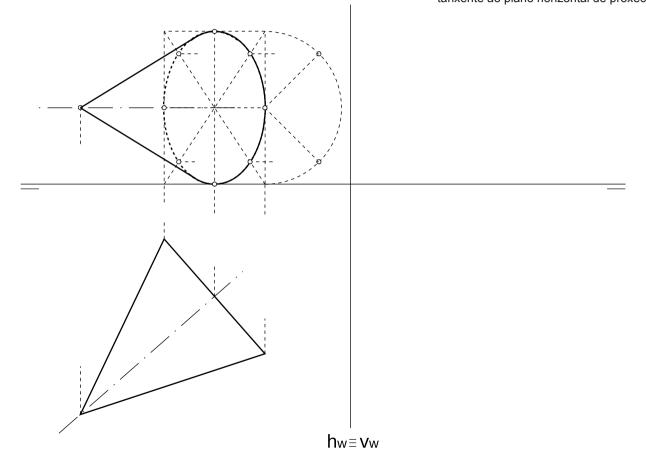


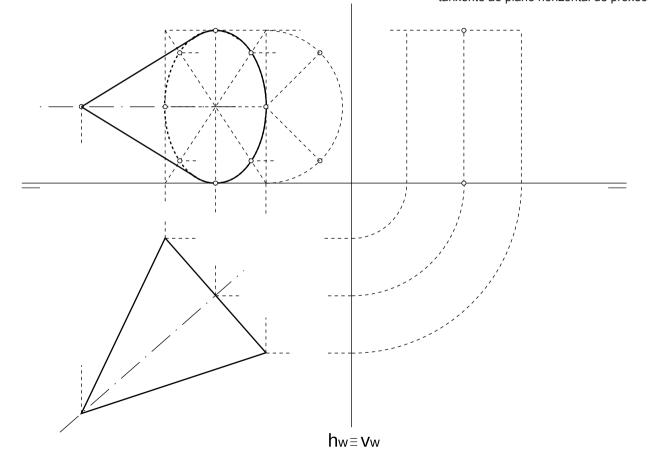


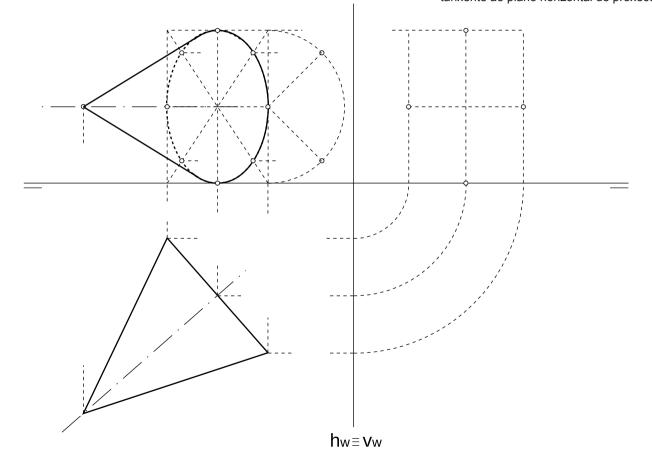


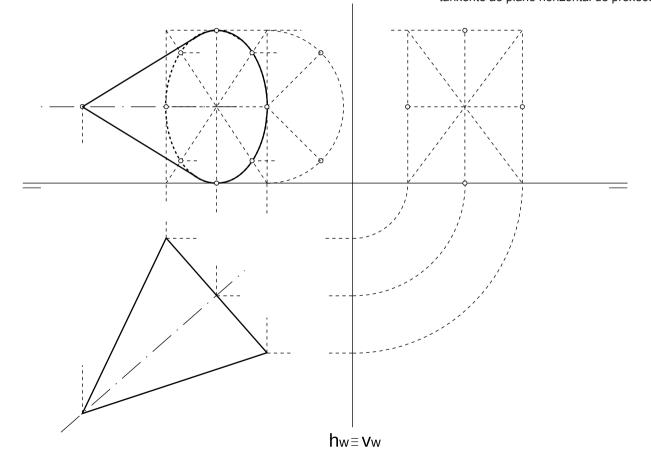


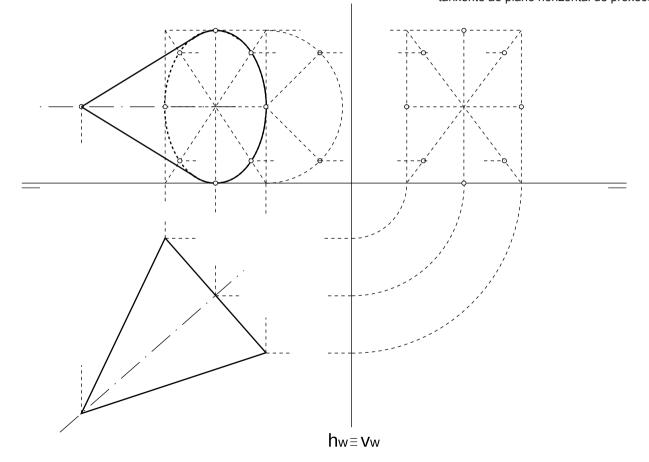


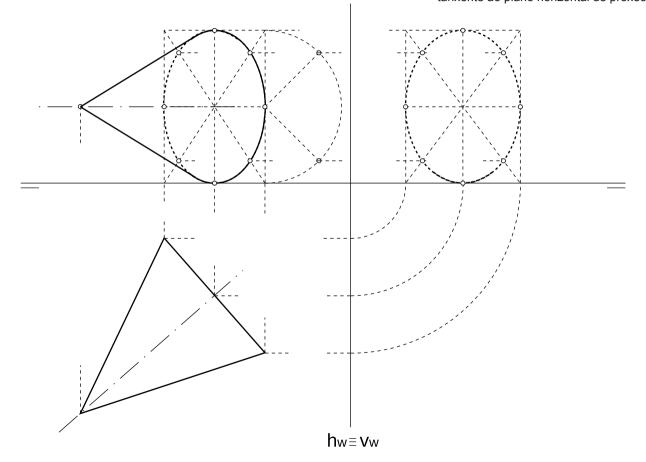


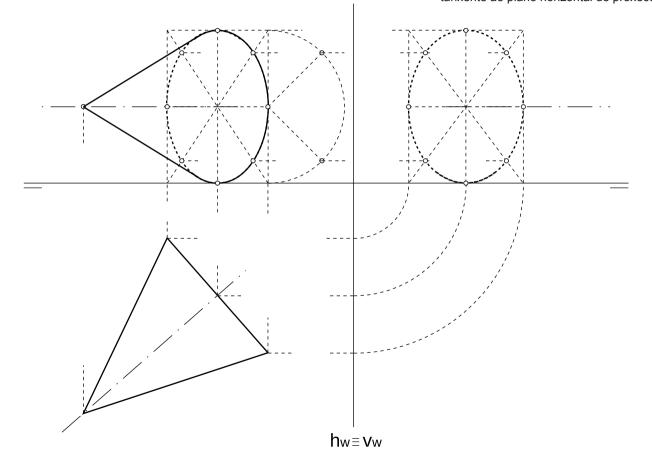


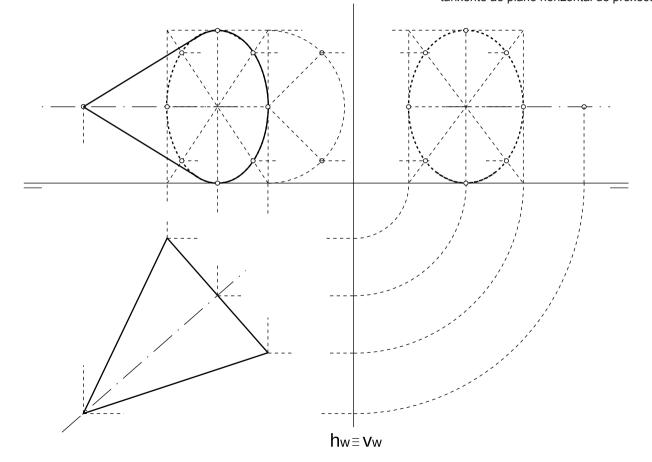


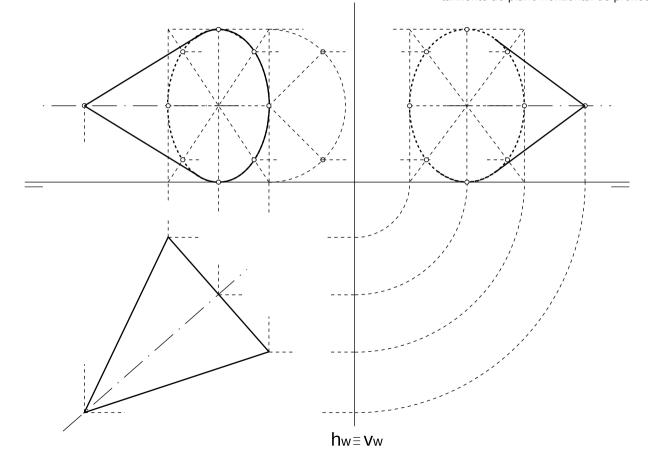


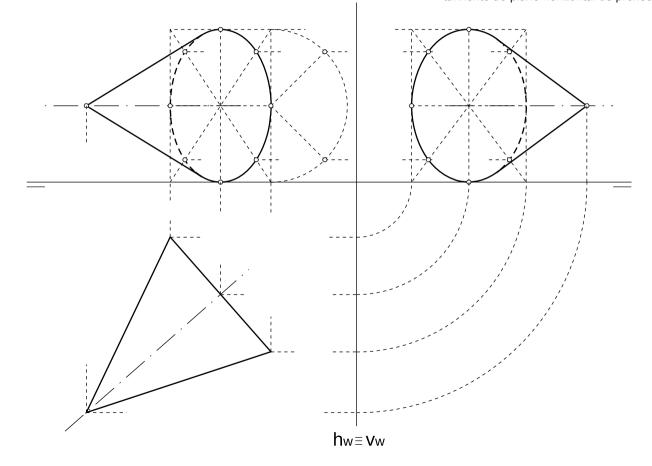




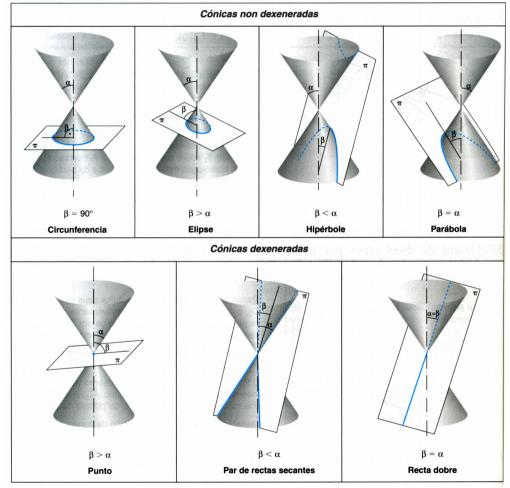






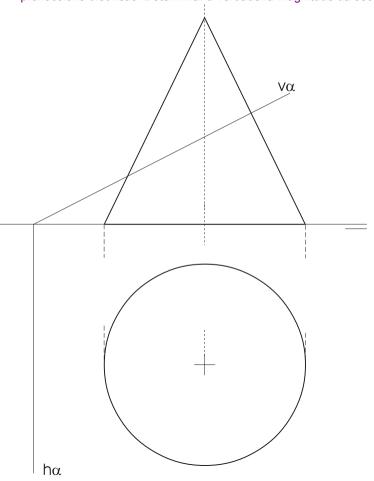


#### · Cono. Seccións.



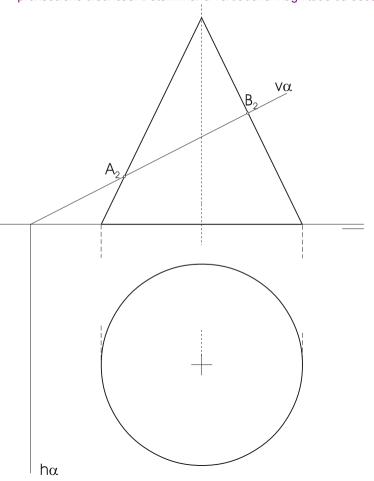
### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

· Cono. Seccións.



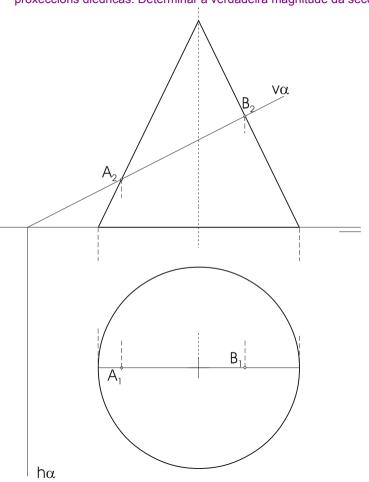
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· Cono. Seccións.



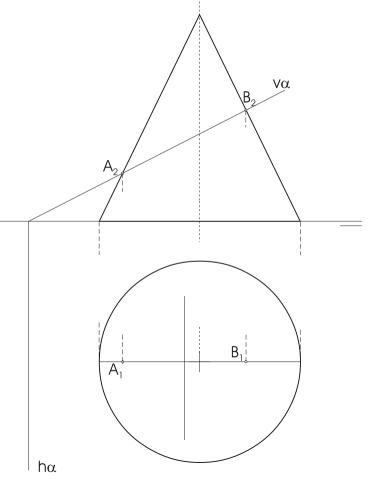
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· Cono. Seccións.



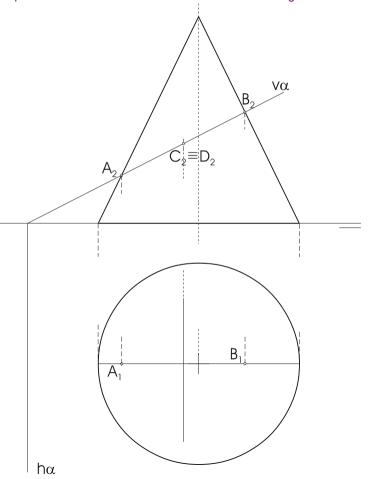
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• Cono. Seccións.



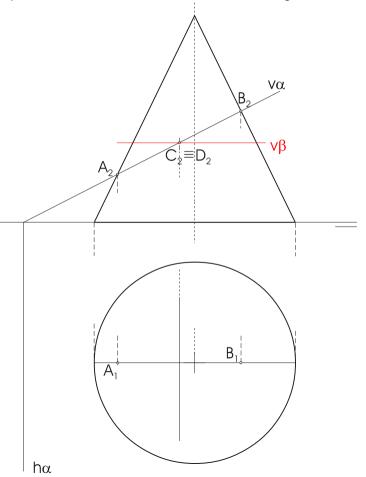
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• Cono. Seccións.



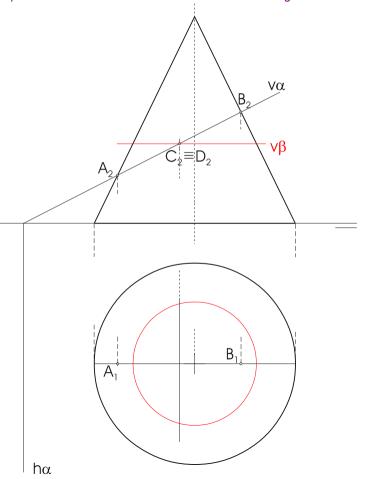
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· Cono. Seccións.



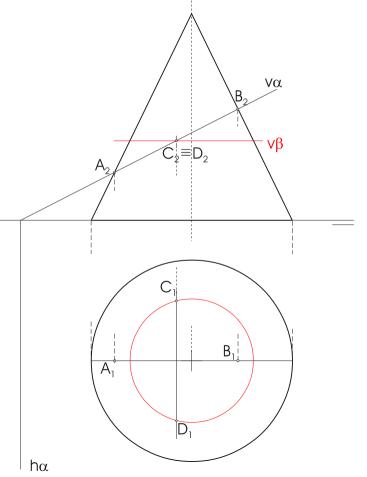
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· Cono. Seccións.



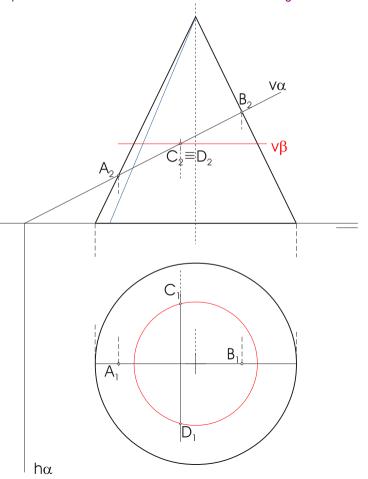
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• Cono. Seccións.



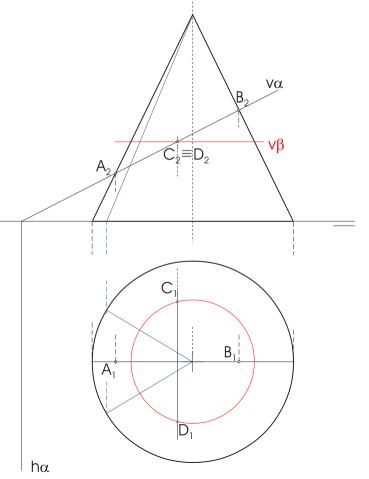
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· Cono. Seccións.



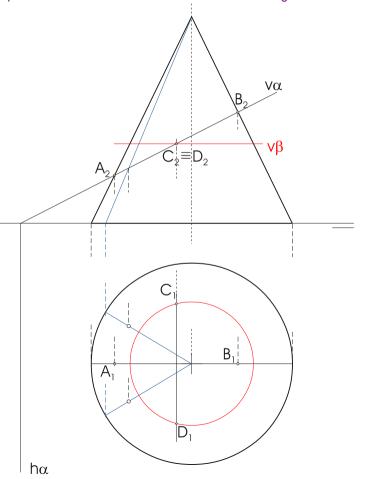
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· Cono. Seccións.



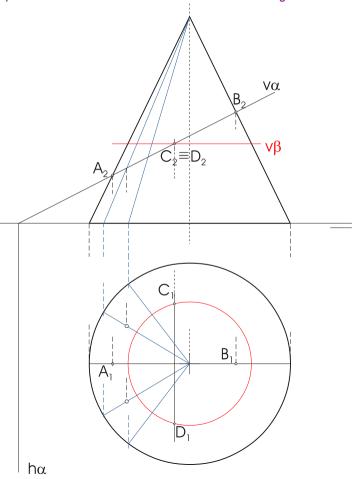
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· Cono. Seccións.



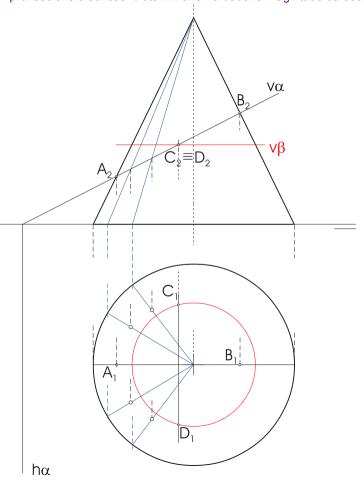
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• Cono. Seccións.



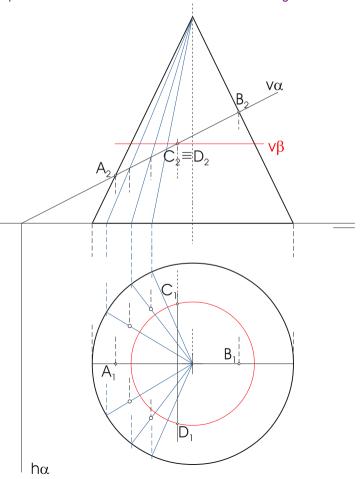
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· Cono. Seccións.



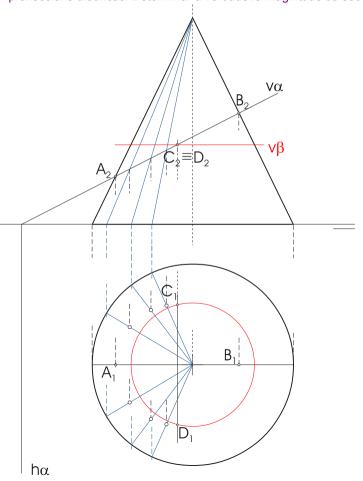
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· Cono. Seccións.



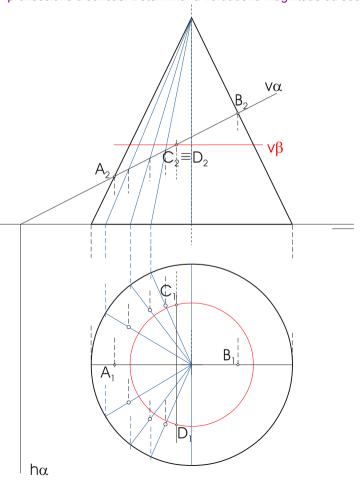
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· Cono. Seccións.



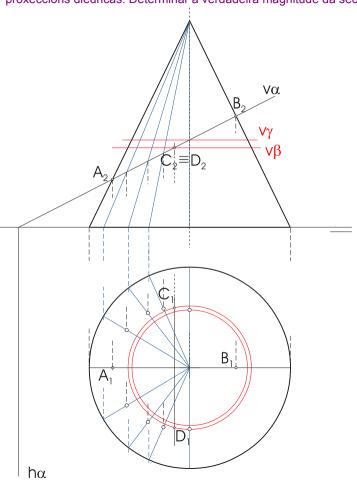
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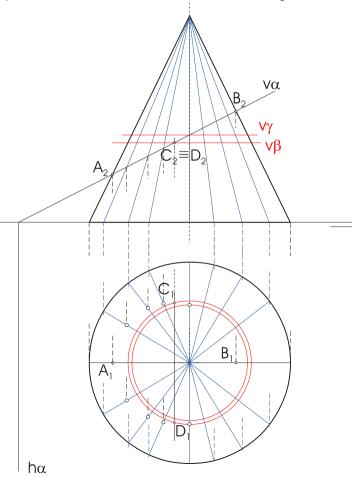
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· Cono. Seccións.



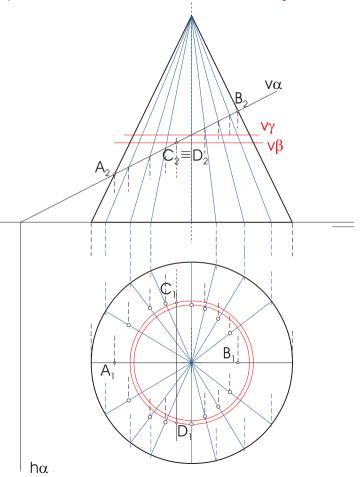
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· Cono. Seccións.



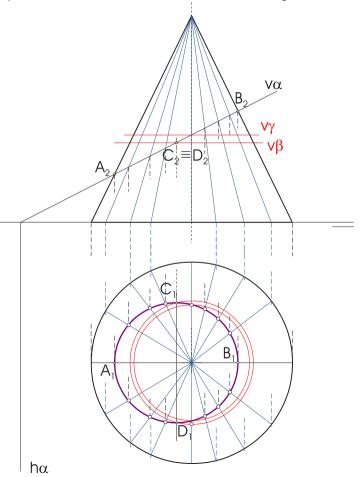
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· Cono. Seccións.



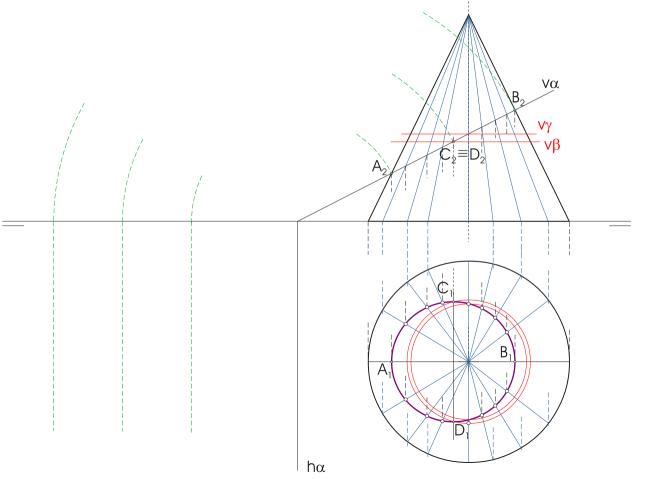
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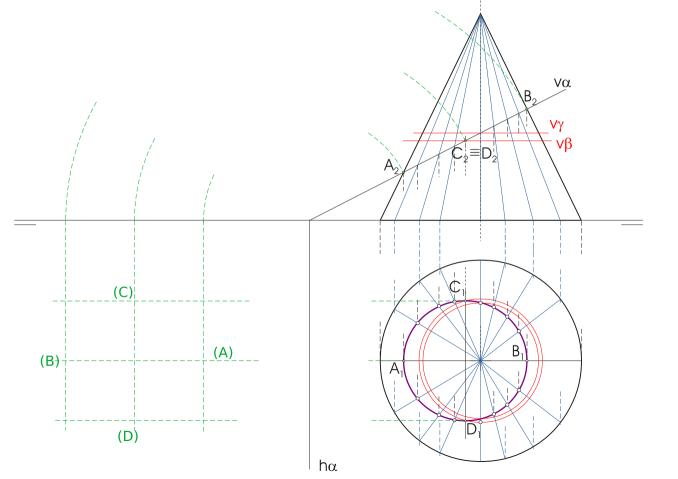


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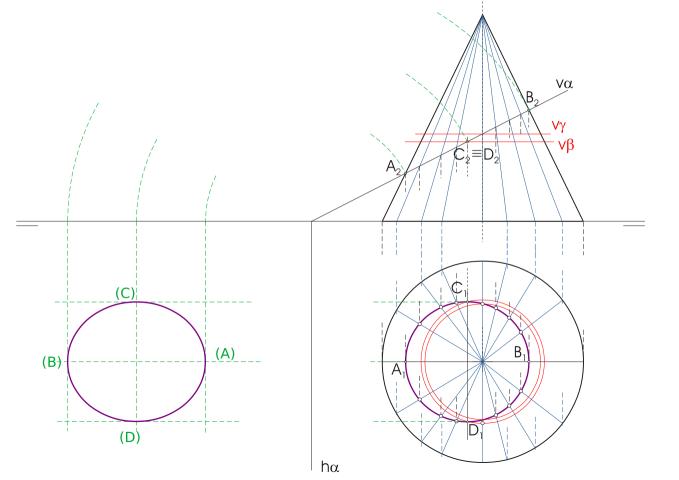


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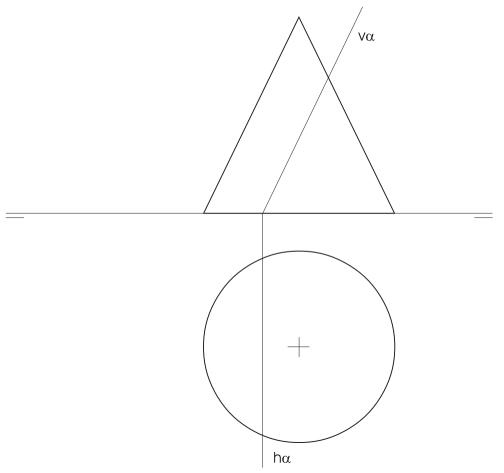
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· Cono. Seccións.



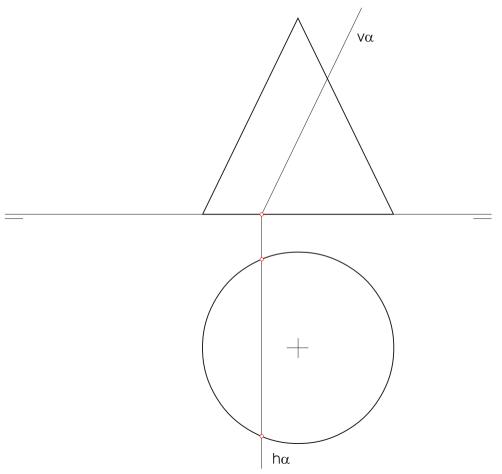
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· Cono. Seccións.



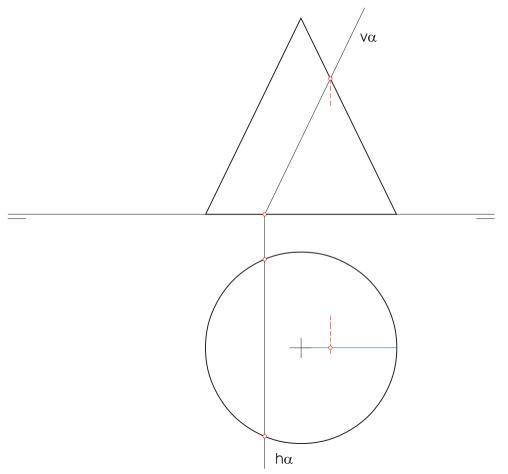
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· Cono. Seccións.



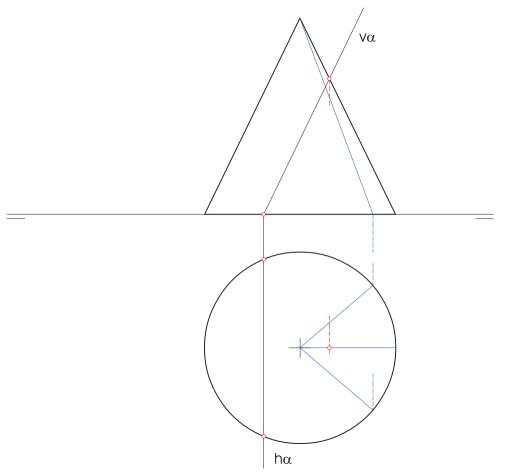
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· Cono. Seccións.



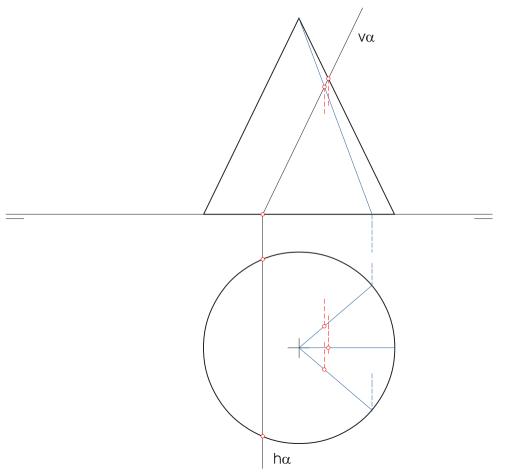
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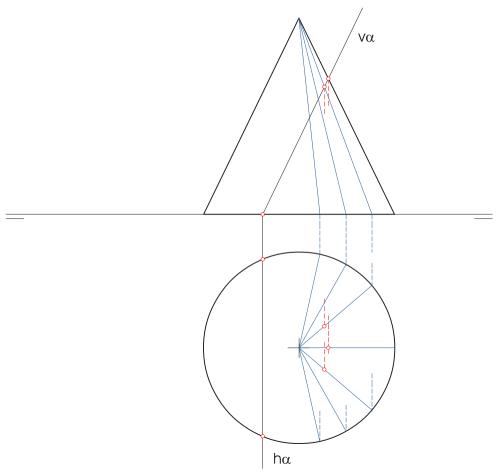
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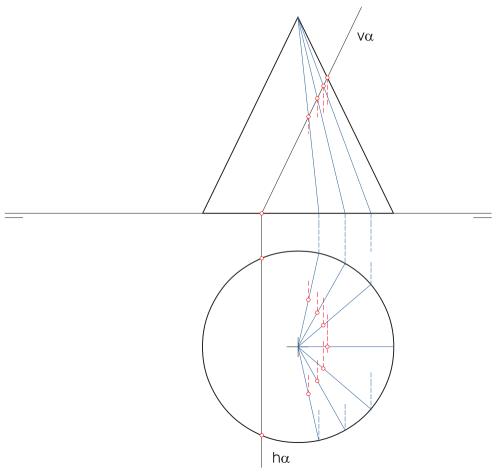
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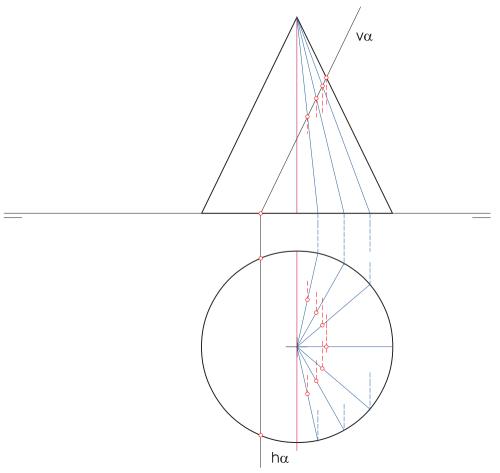
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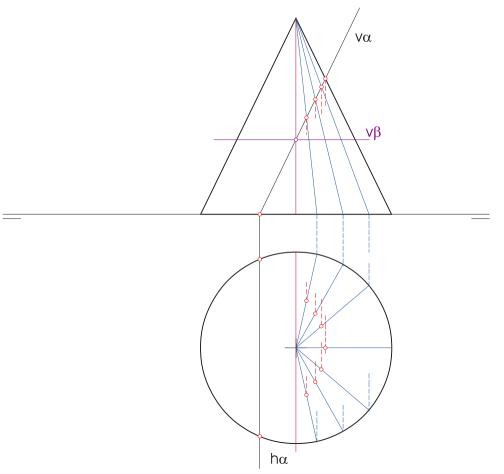


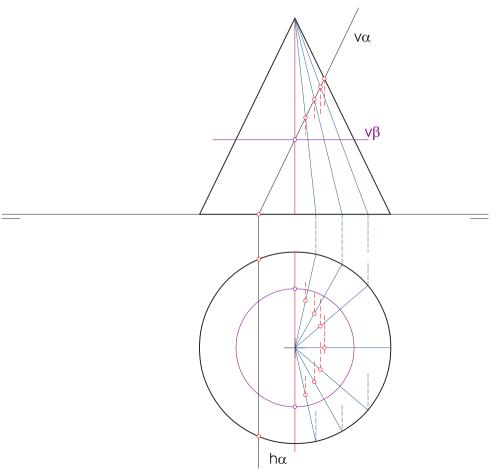
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· Cono. Seccións.



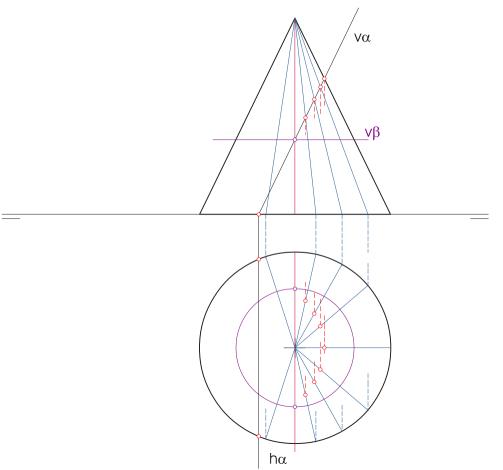






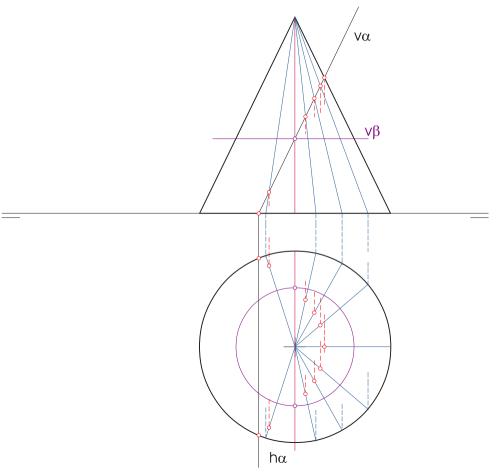
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· Cono. Seccións.



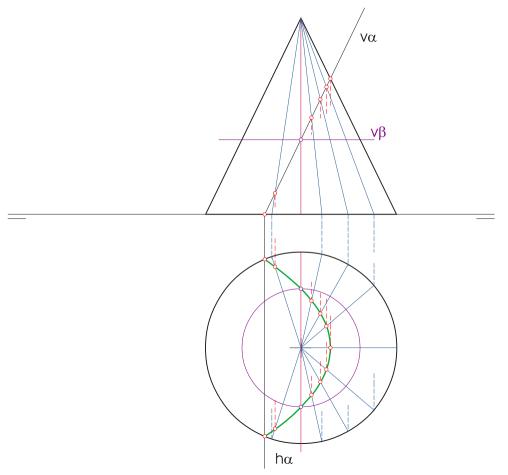
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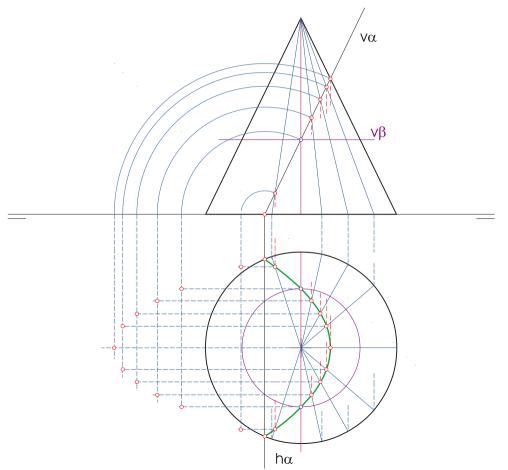
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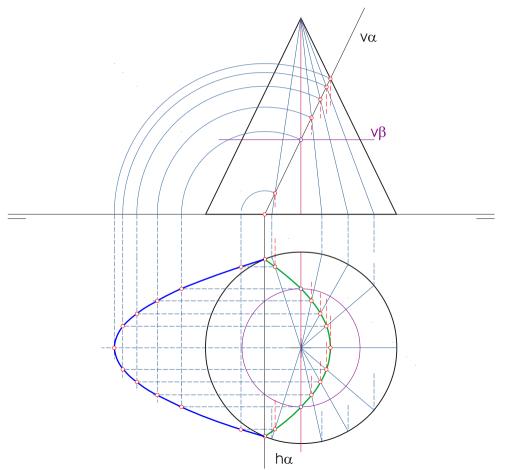


## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

· Cono. Seccións.

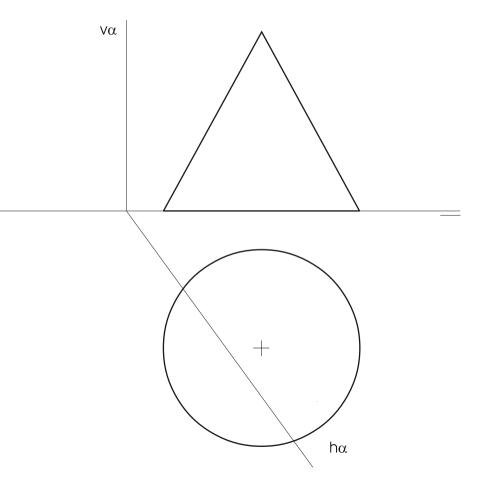






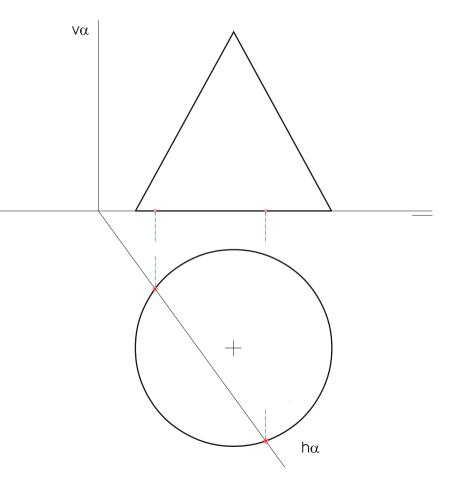
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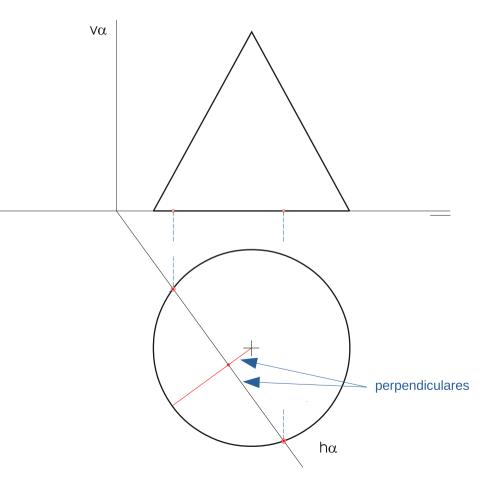
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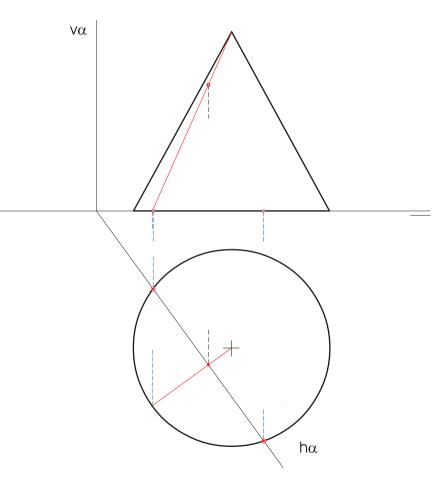


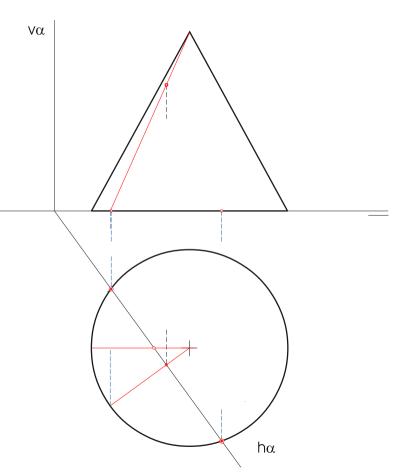
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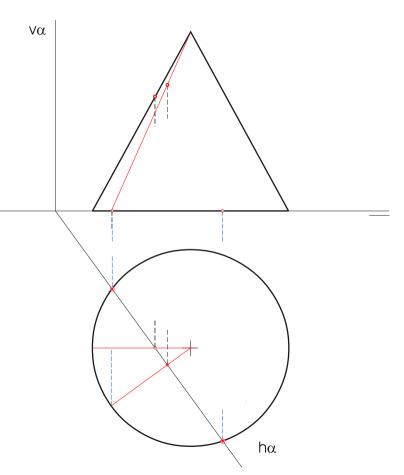
· Cono. Seccións.

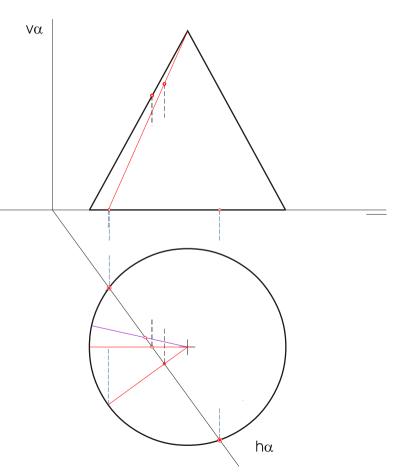


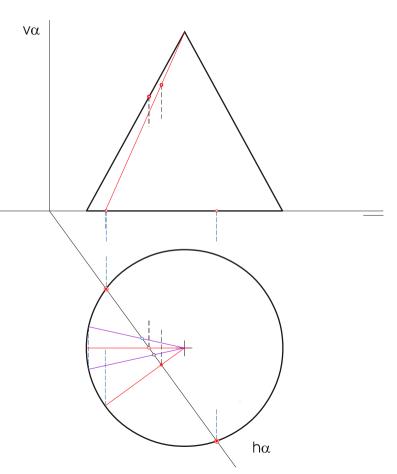






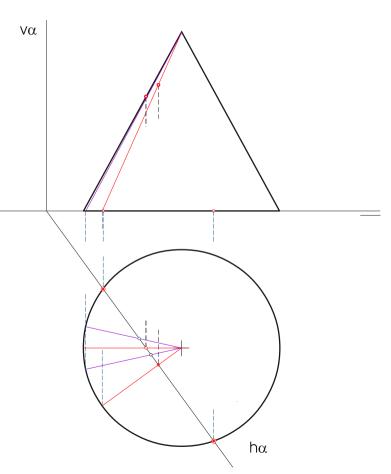


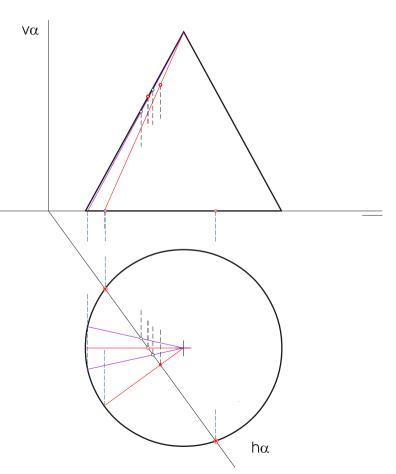




## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

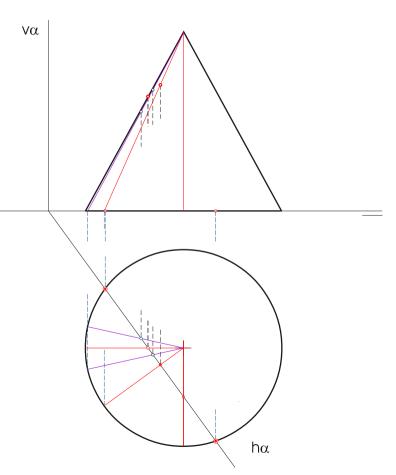
· Cono. Seccións.

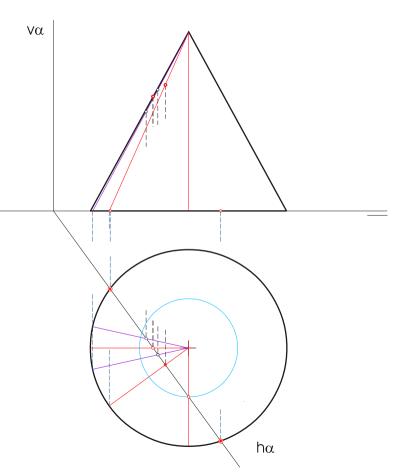


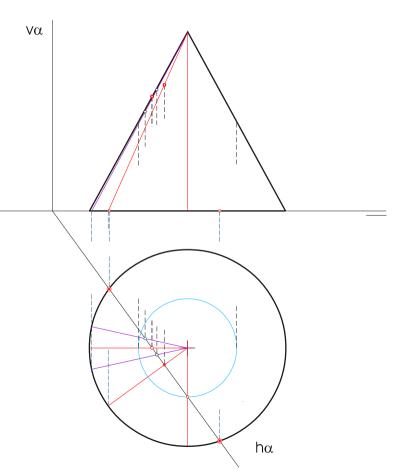


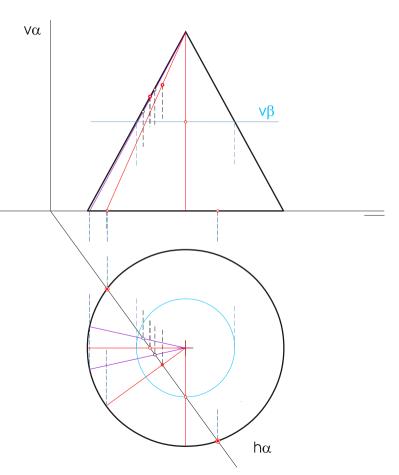
#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

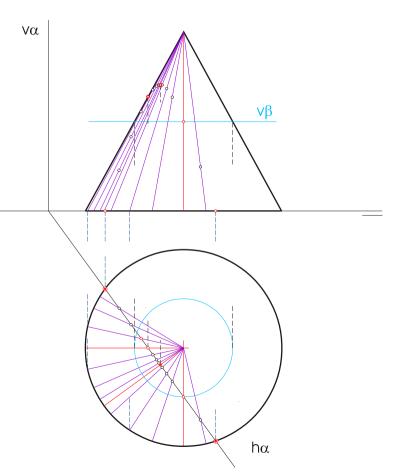
· Cono. Seccións.

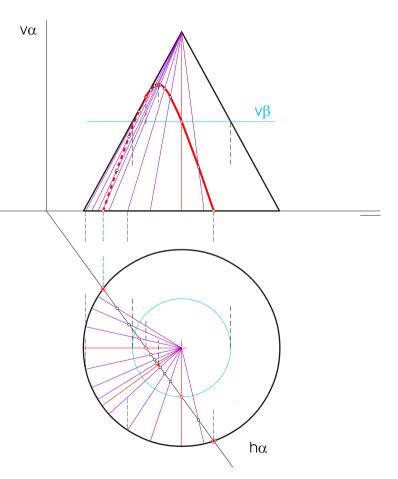


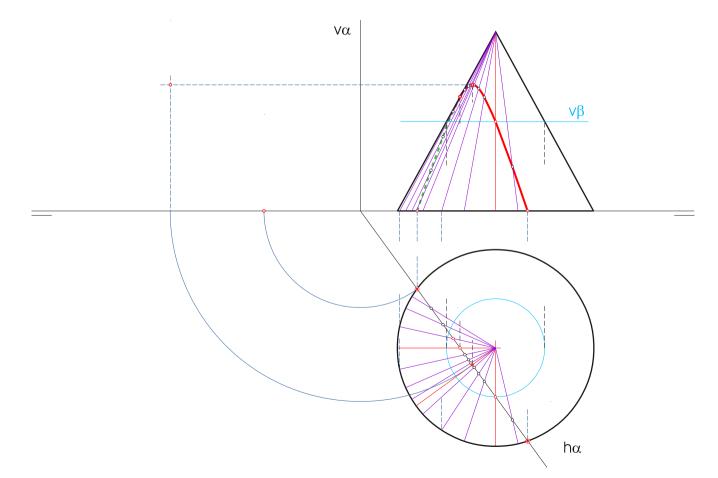


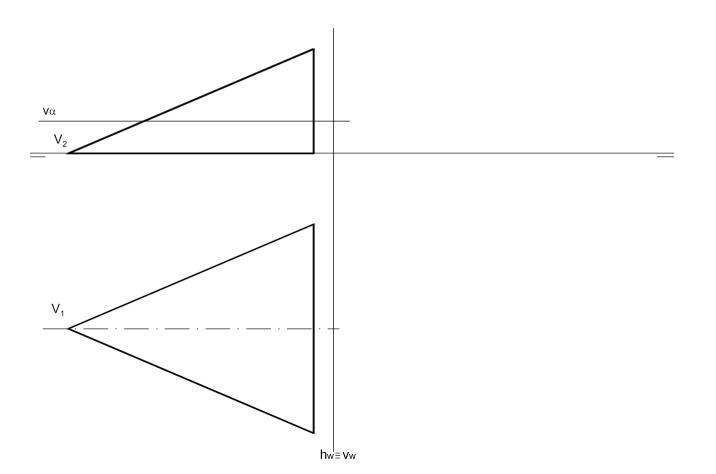


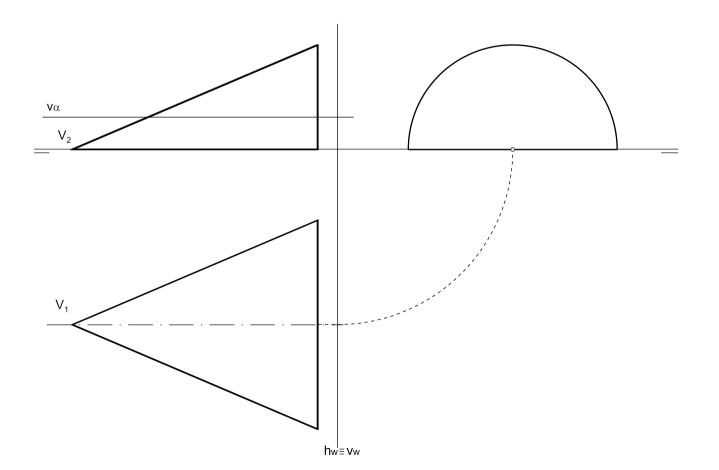


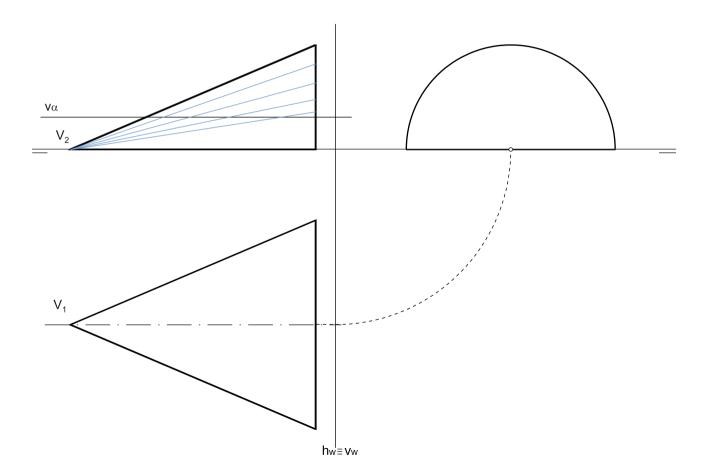


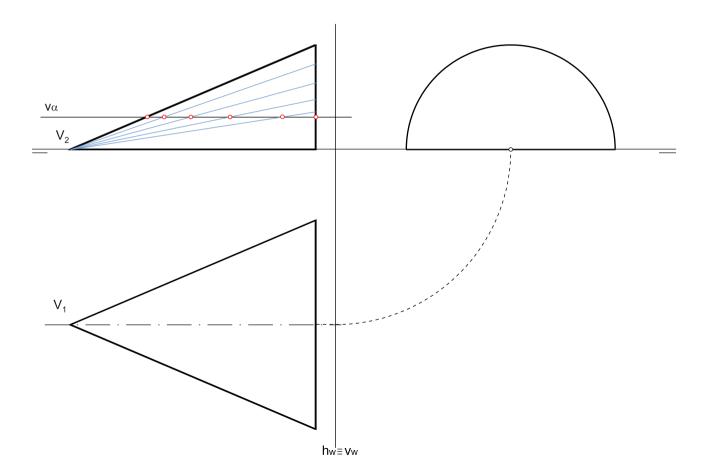


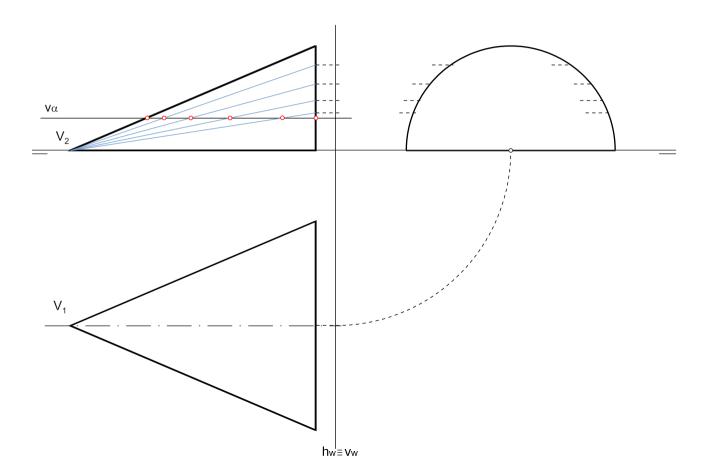


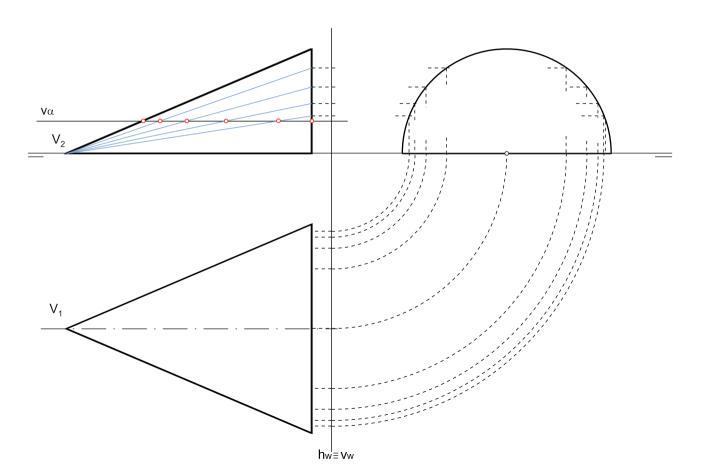


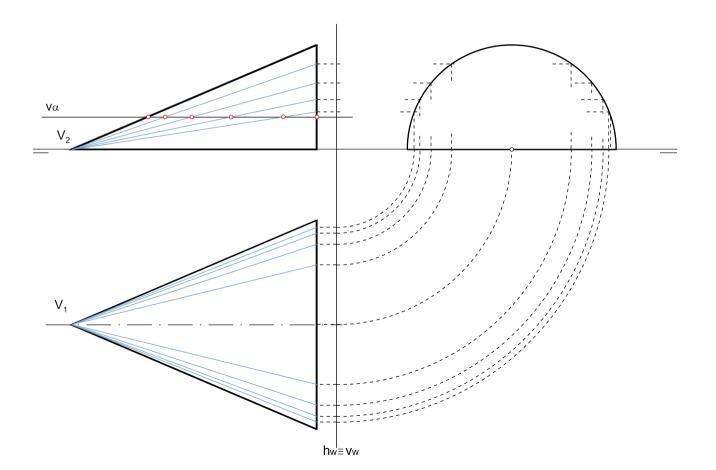


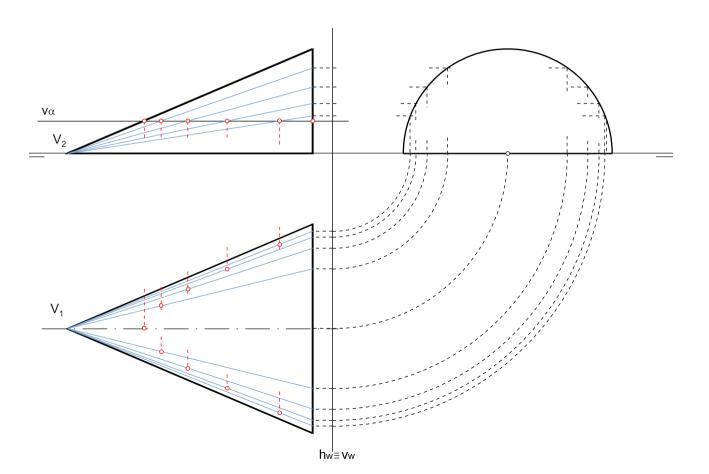


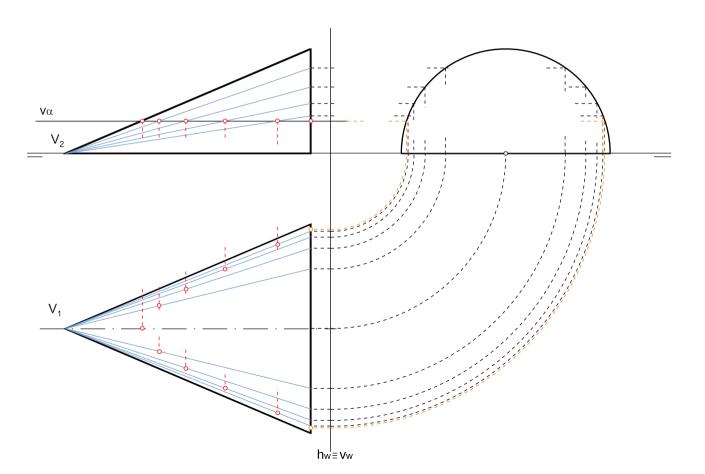


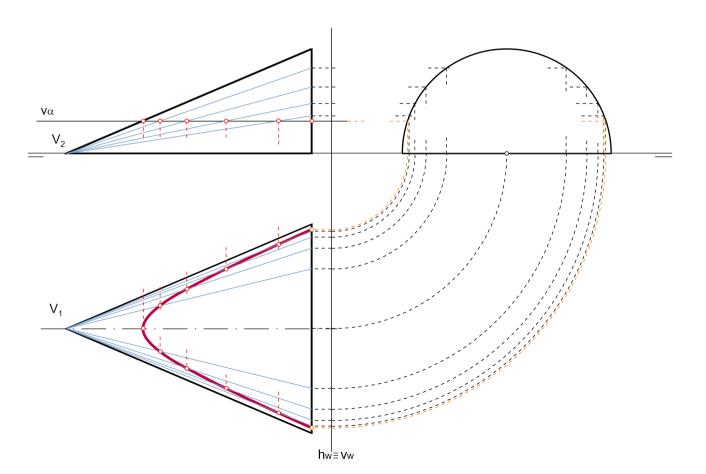




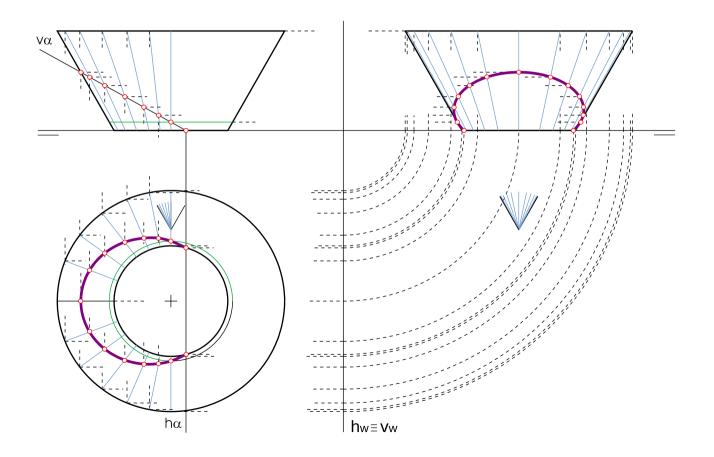




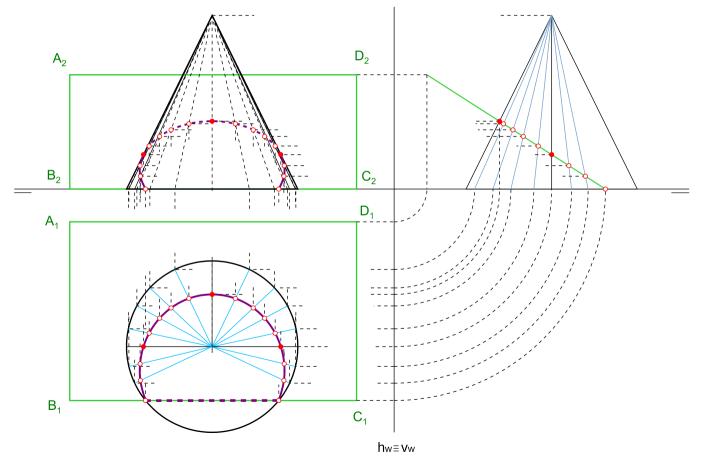


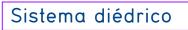


- Debuxar a 1ª, 2ª e 3ª proxeccións diédricas da sección que produce o plano  $\alpha$  no cono truncado, invertido e oco da figura.



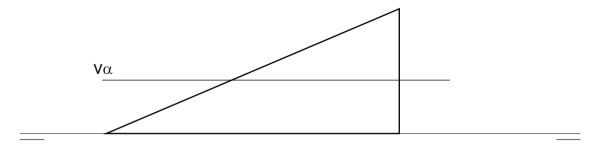
- Debuxar a 1ª, 2ª e 3ª proxeccións diédricas da sección que produce o rectángulo A-B-C-D no cono da figura.

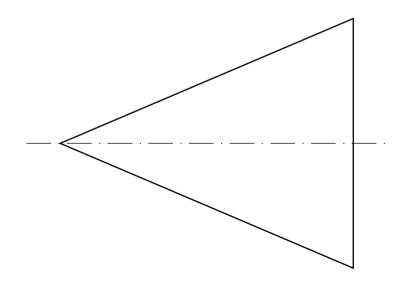




# Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

· Cono. Seccións.

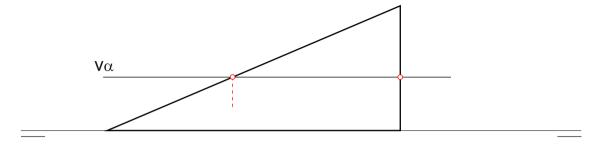


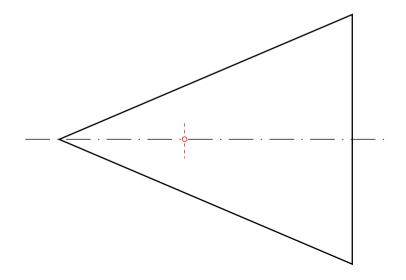


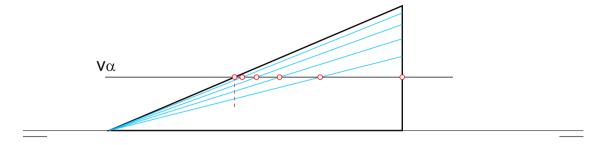


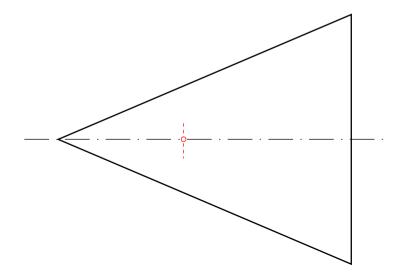
# Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

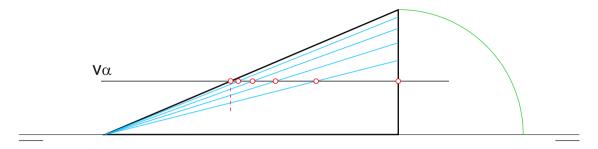
· Cono. Seccións.

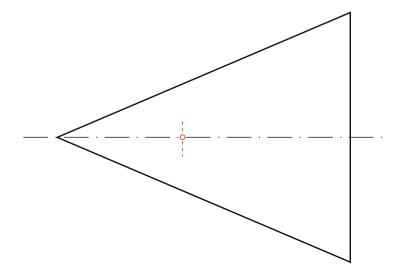


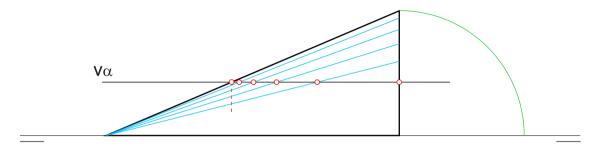


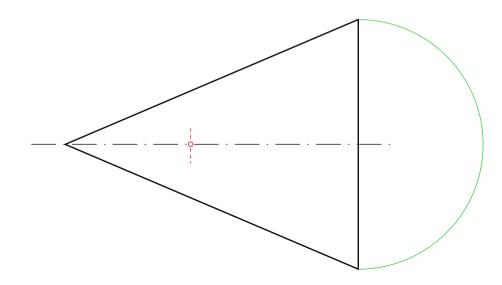


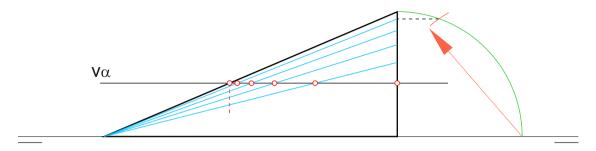


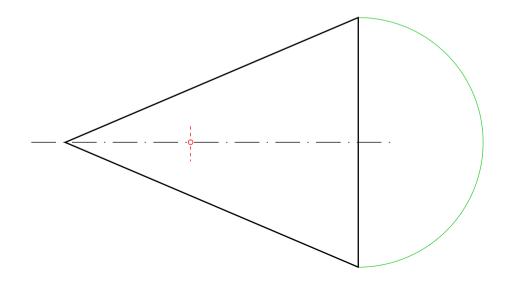


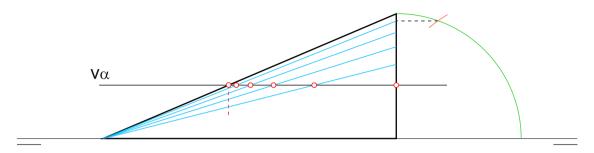


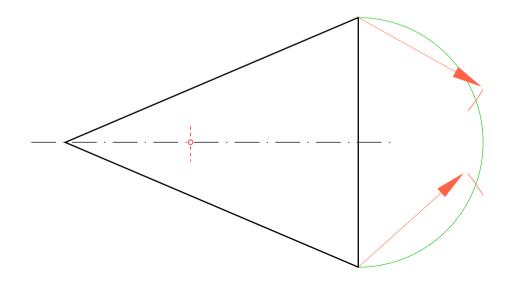


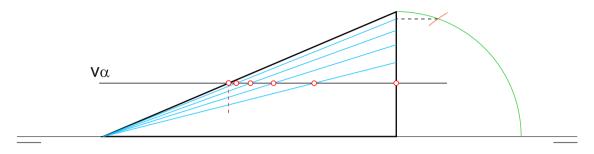


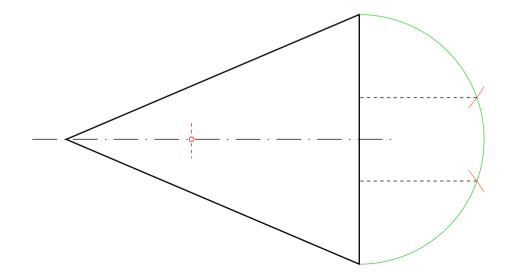


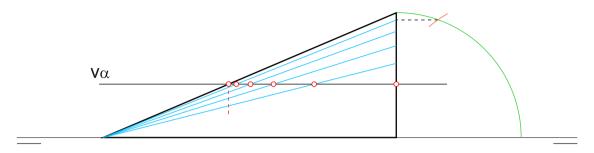


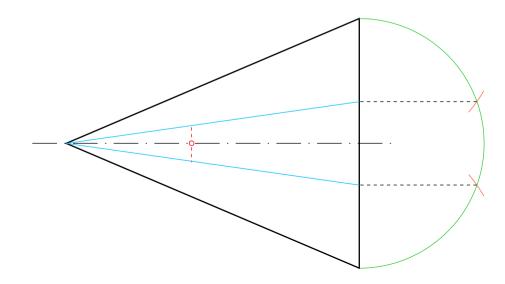


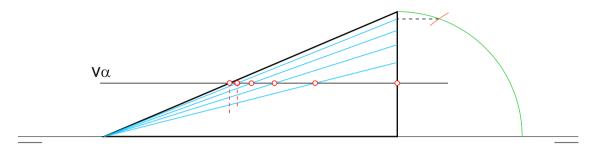


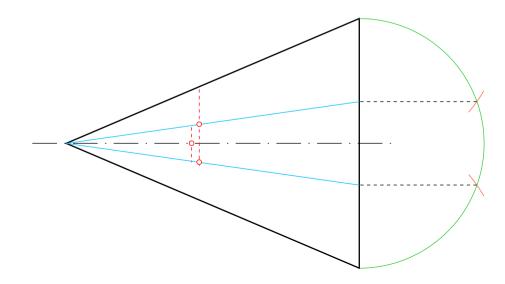


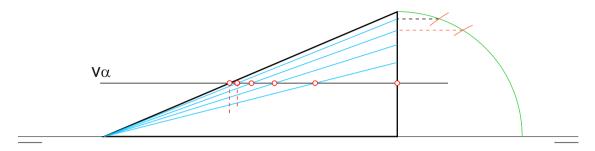


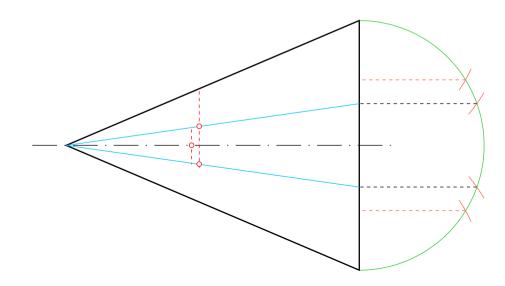


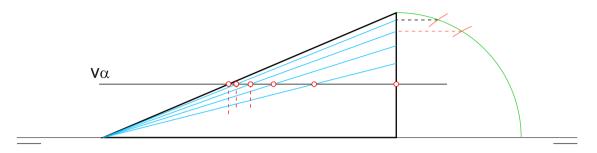


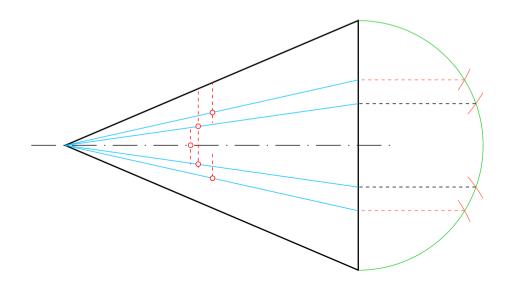


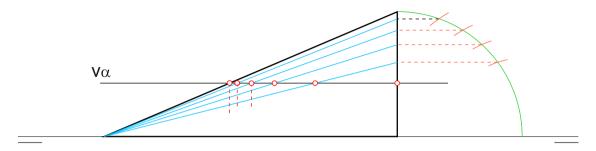


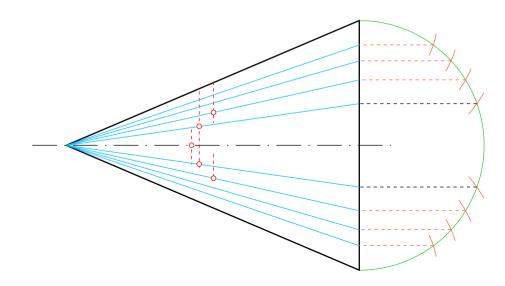


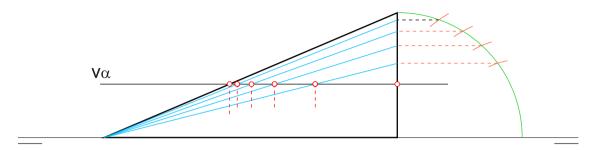


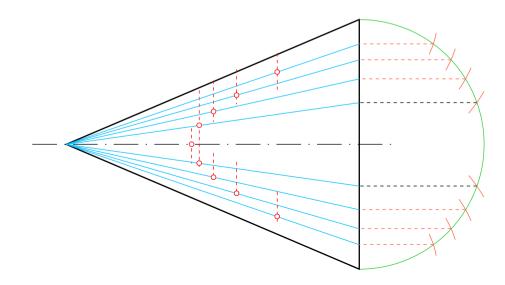


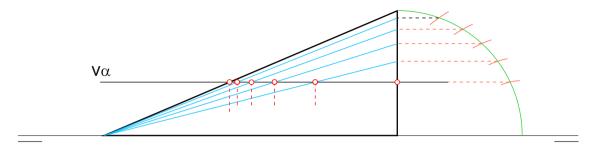


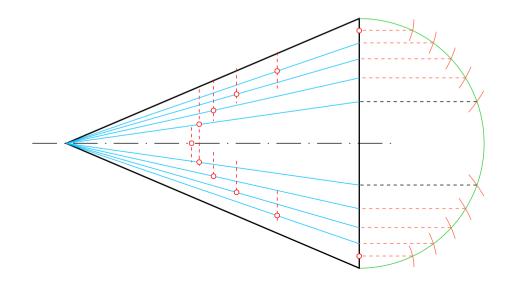


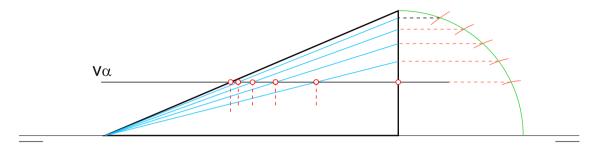


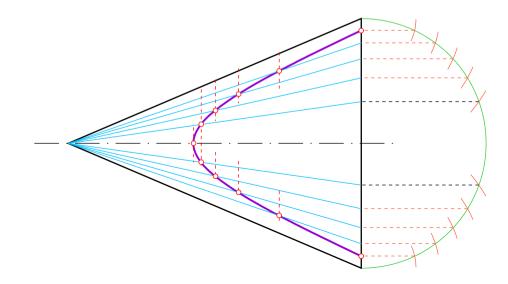








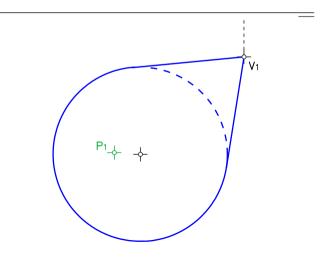




· Cono. Seccións. - Debuxar a 1ª e 2ª proxeccións diédricas da sección que produce o plano frontal  $\alpha$  no cono da figura.  $h\alpha$ 

- Debuxar as trazas dun <u>plano  $\alpha$  tanxente a un cono</u> apoiado no horizontal de proxección, que pasa por un punto **P** da superficie do cono.





- Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono.

- Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono.

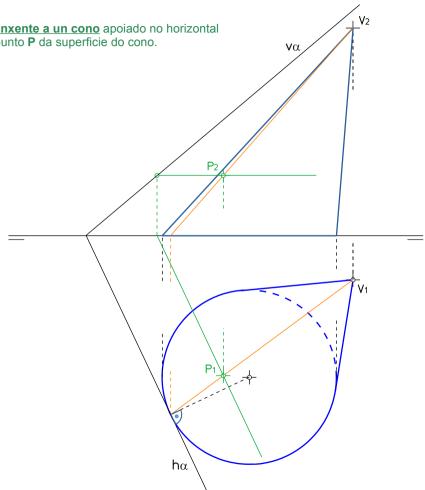
· Cono. Seccións. - Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono.

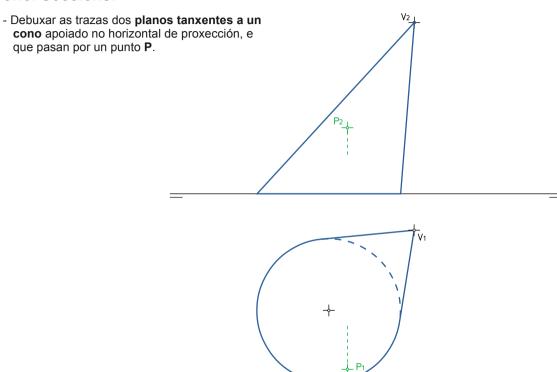
· Cono. Seccións. - Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono.

· Cono. Seccións. - Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono. hα

- Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono. hα

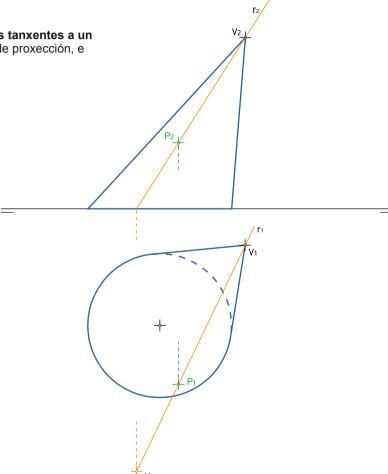
- Debuxar as trazas dun **plano**  $\alpha$  **tanxente a un cono** apoiado no horizontal de proxección, que pasa por un punto P da superficie do cono.

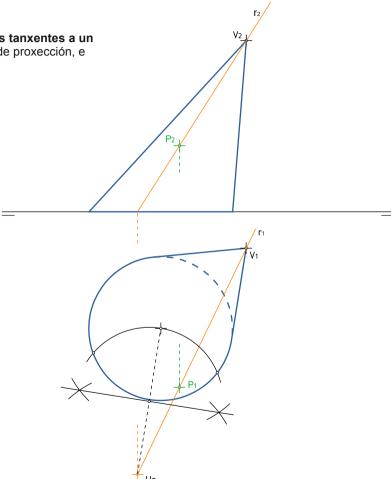




## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

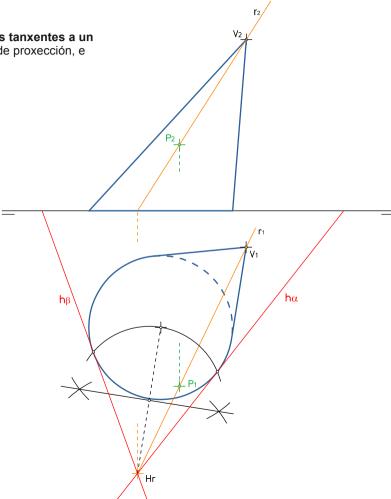
### · Cono. Seccións.





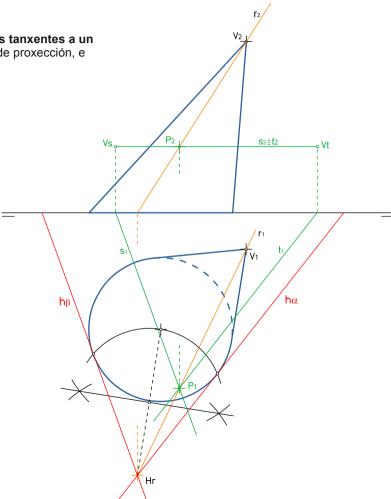
## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

### · Cono. Seccións.



## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

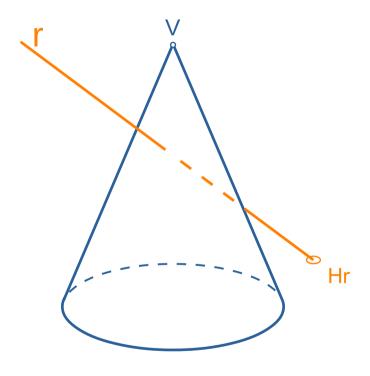
### · Cono. Seccións.

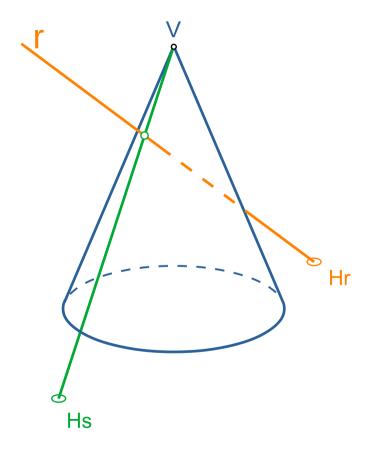


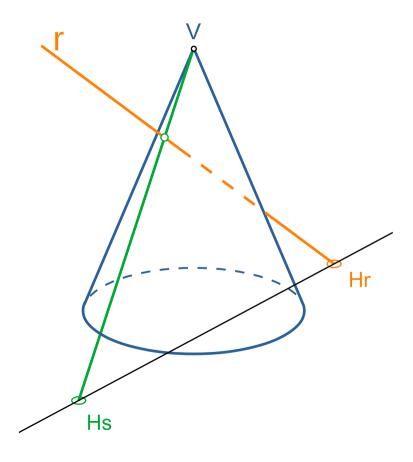
## Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

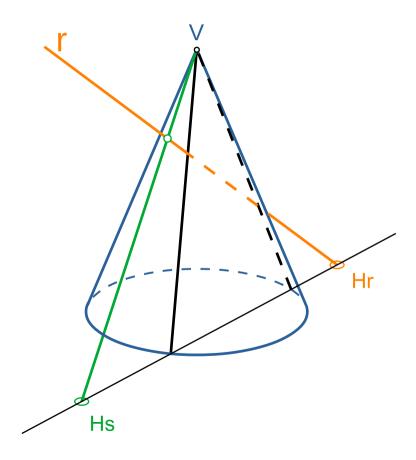
### · Cono. Seccións.

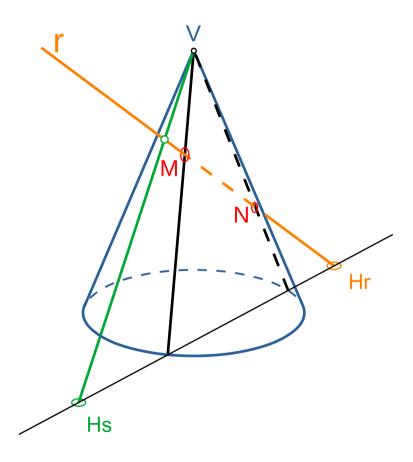
Cono. Puntos de intersección recta cono.

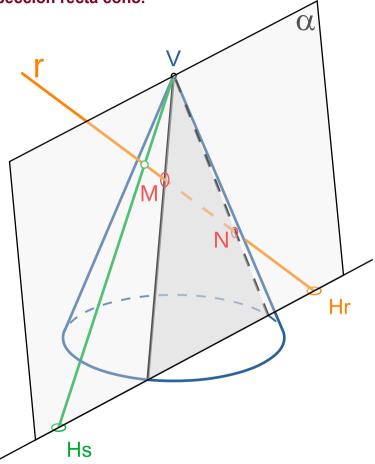




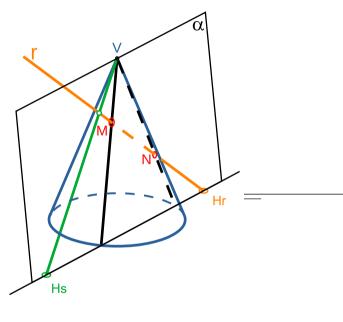


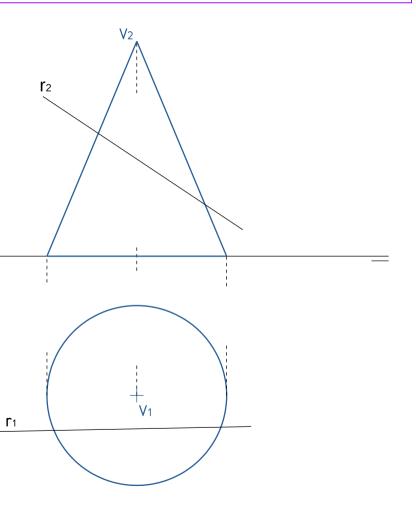




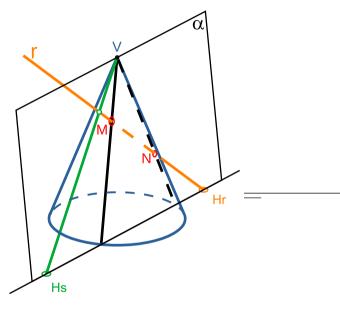


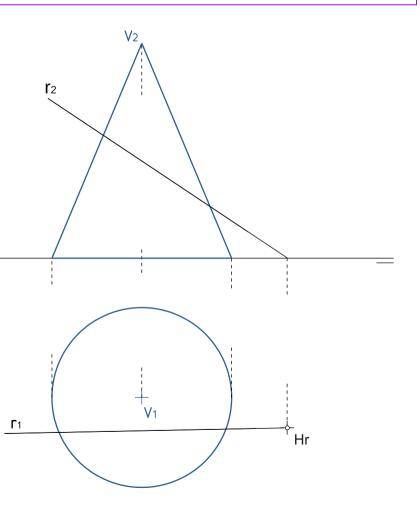
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección " **M** e **N**", entre a recta "**r**" e o cono figura.

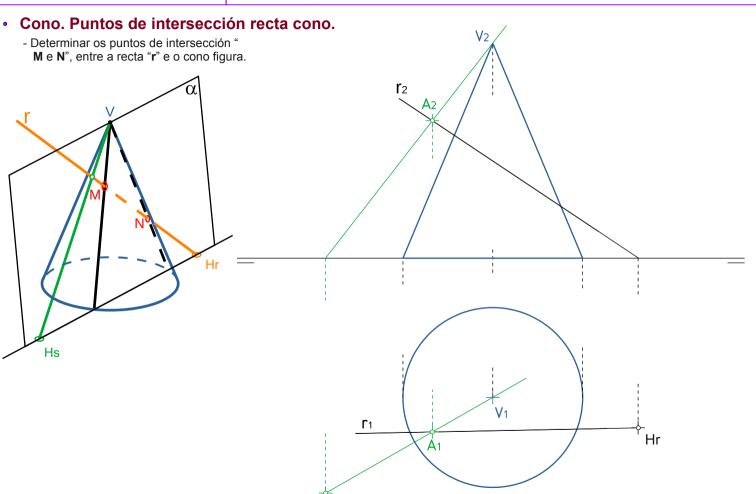




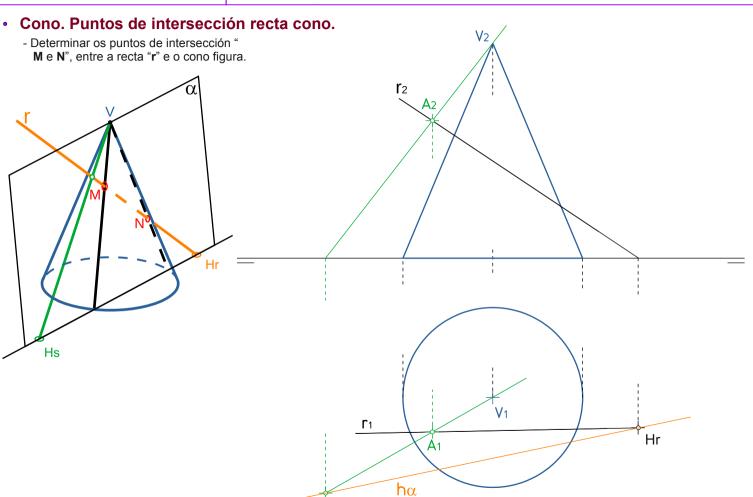
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



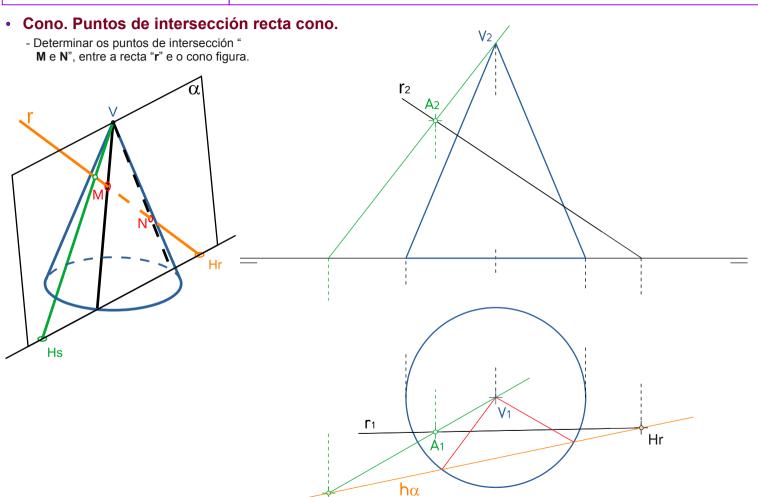




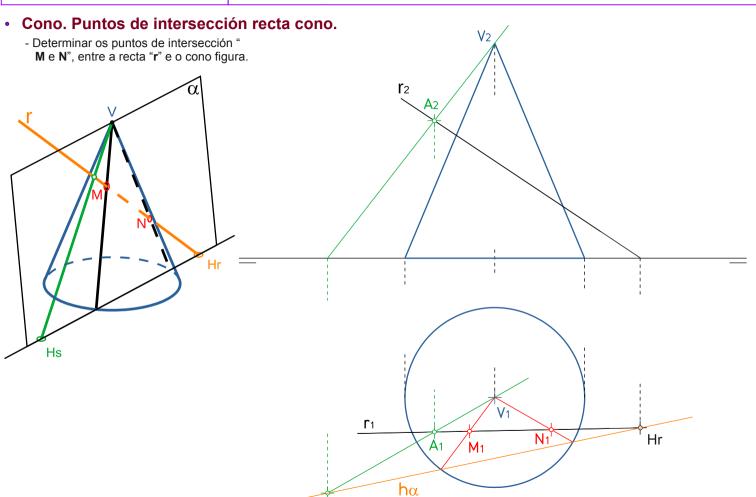
#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro



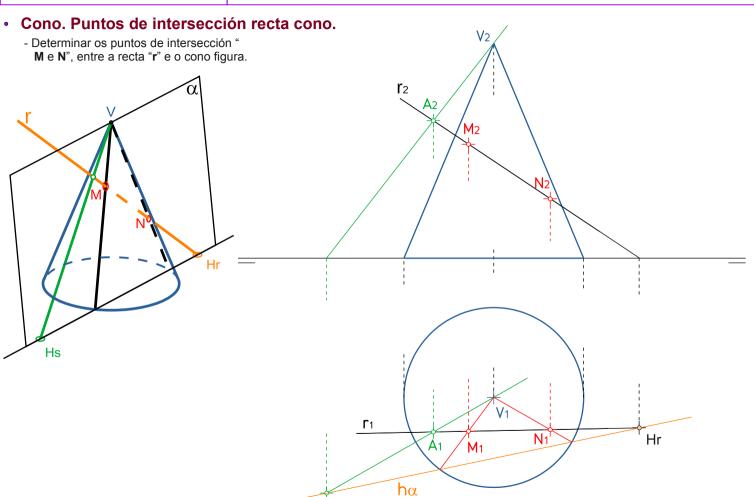
#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro



#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro



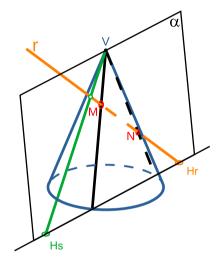
#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

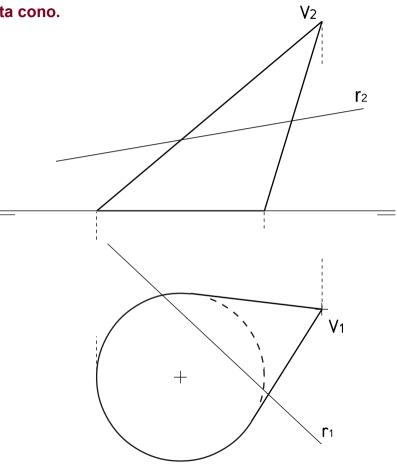


### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

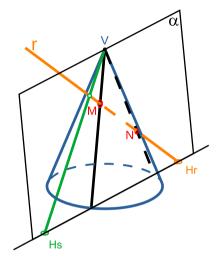
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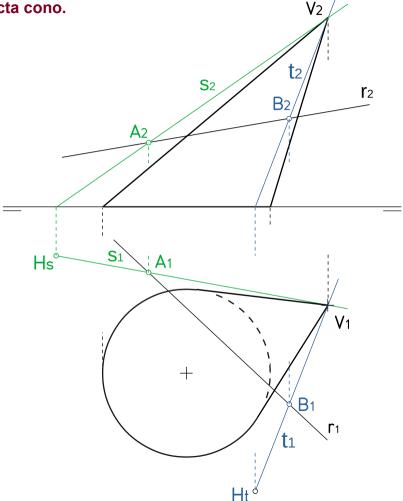
- Determinar os puntos de intersección " **M** e **N**", entre a recta "**r**" e o cono figura.



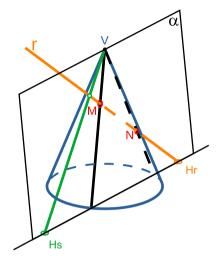


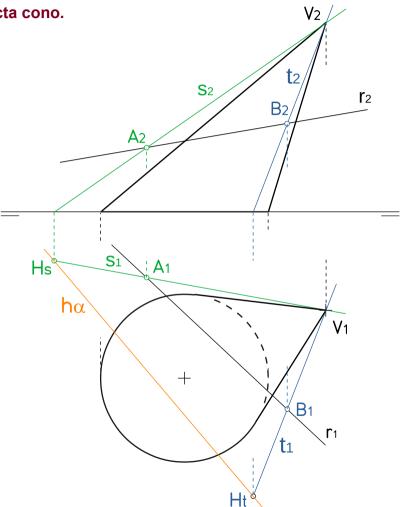
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



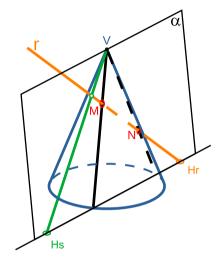


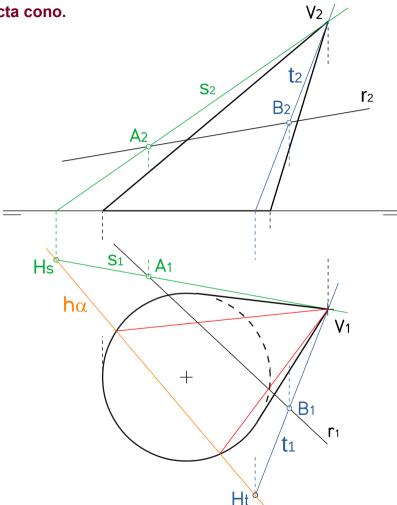
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



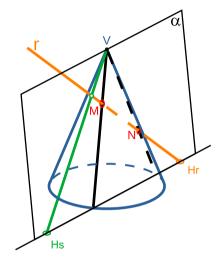


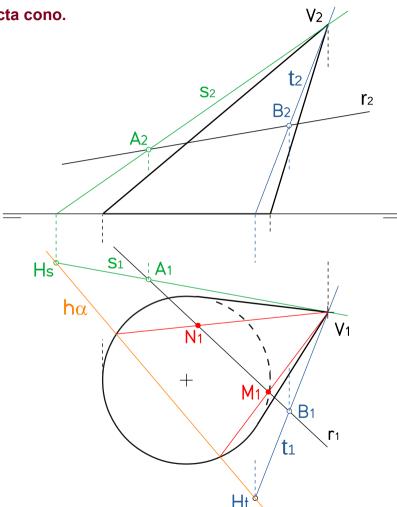
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



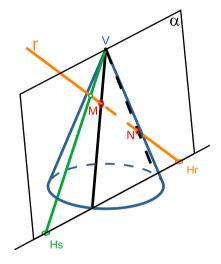


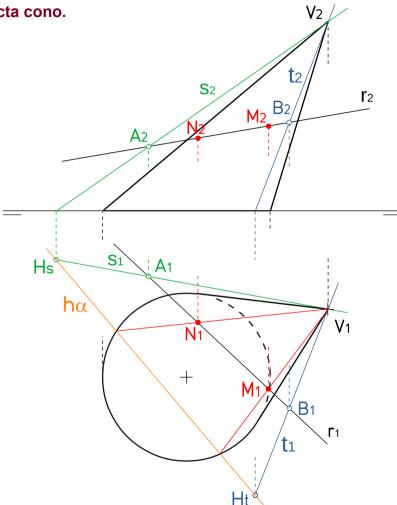
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



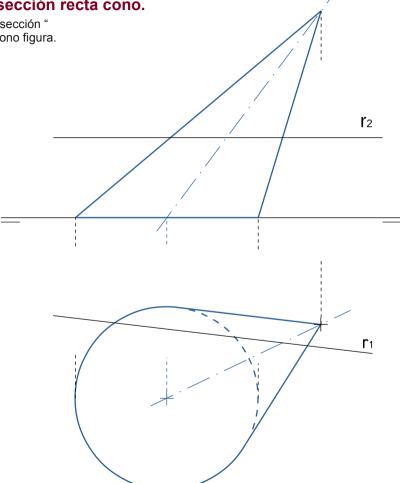


- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.

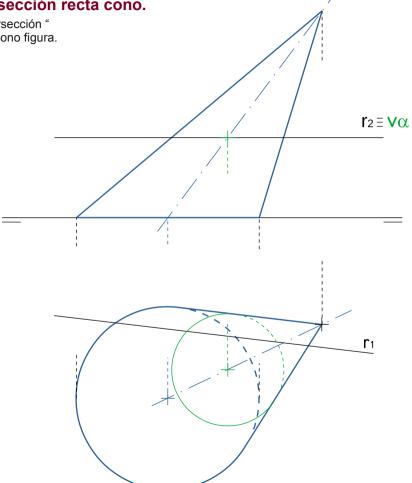




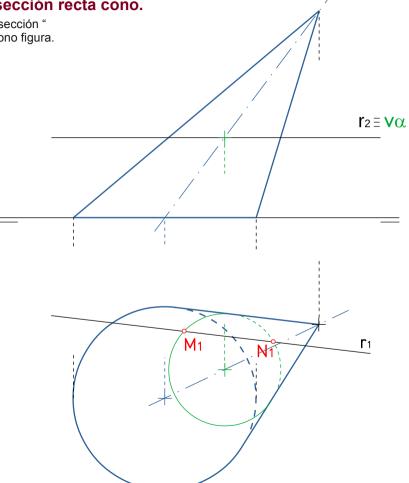
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



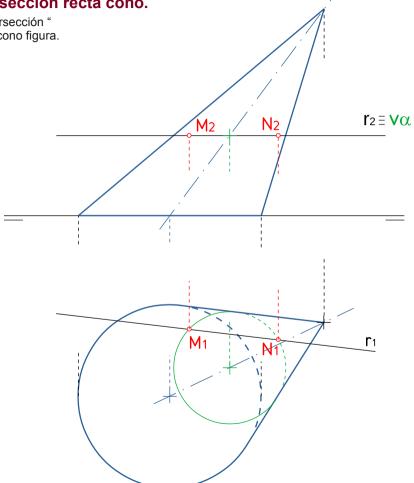
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



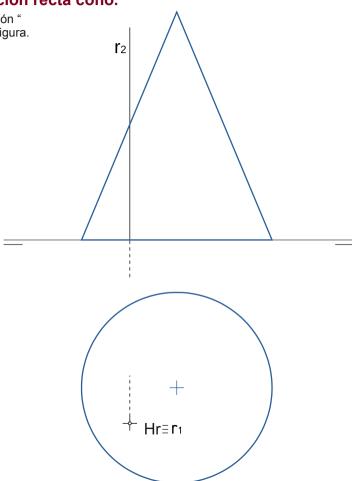
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



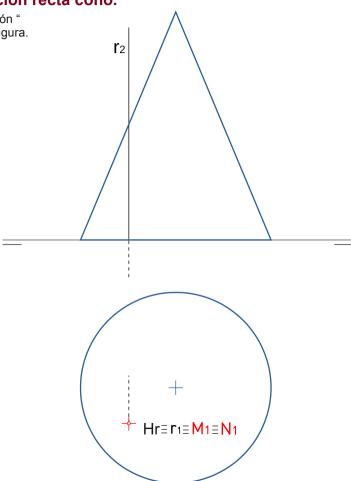
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



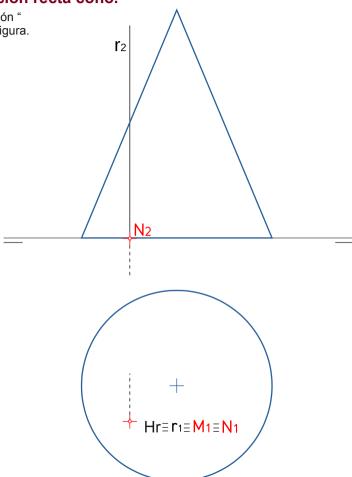
- Cono. Puntos de intersección recta cono.
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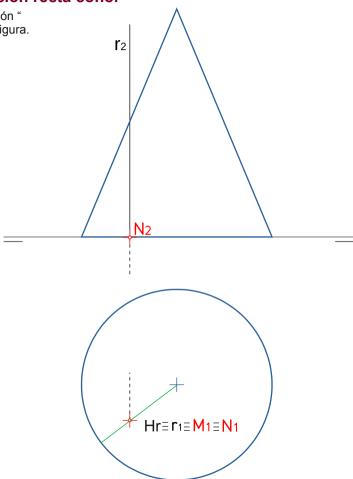
- Cono. Puntos de intersección recta cono.
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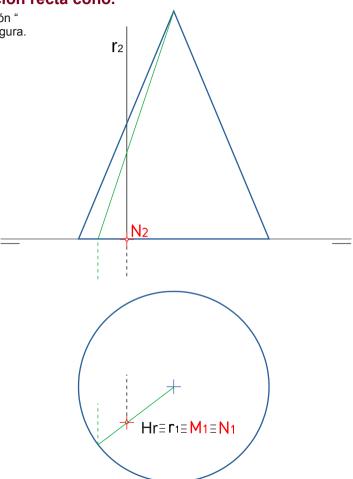
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
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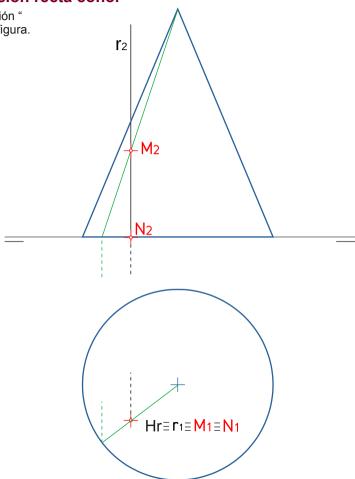
- · Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
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- Cono. Puntos de intersección recta cono.
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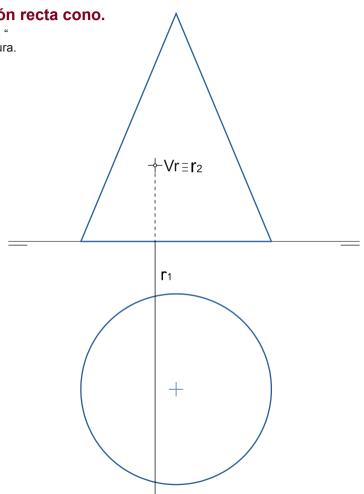
- Cono. Puntos de intersección recta cono.
  - Determinar os puntos de intersección "
     M e N", entre a recta "r" e o cono figura.



### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro



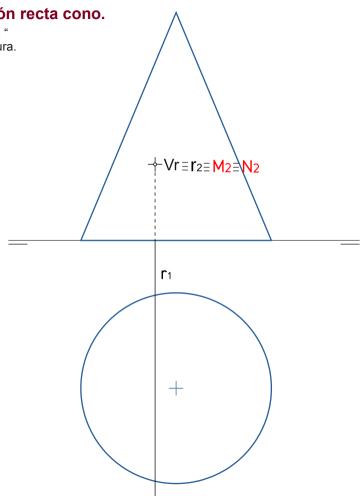
- Determinar os puntos de intersección "  ${\bf M}$  e  ${\bf N}$ ", entre a recta " ${\bf r}$ " e o cono figura.



#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

• Cono. Puntos de intersección recta cono.

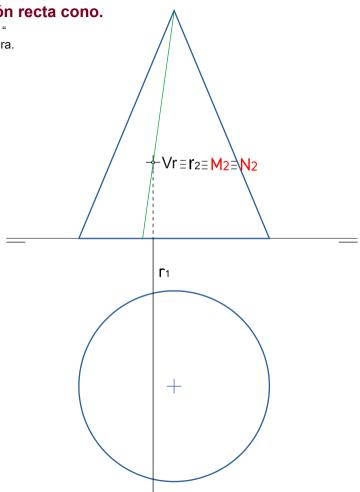
Determinar os puntos de intersección "
 M e N", entre a recta "r" e o cono figura.



### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

• Cono. Puntos de intersección recta cono.

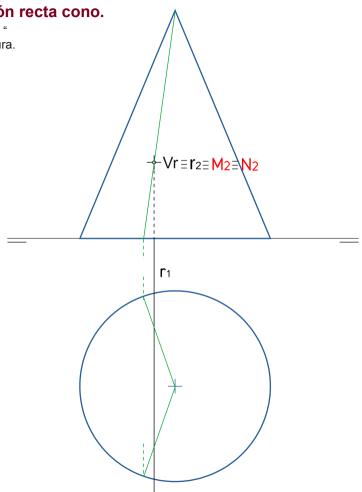
Determinar os puntos de intersección "
 M e N", entre a recta "r" e o cono figura.



#### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

• Cono. Puntos de intersección recta cono.

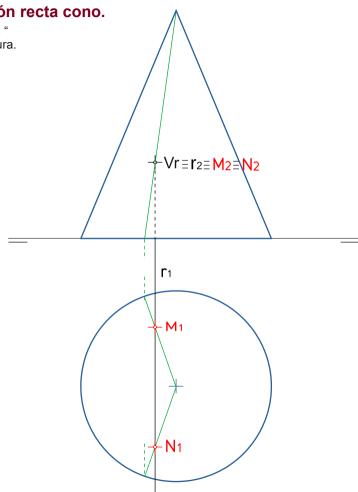
- Determinar os puntos de intersección "  ${\bf M}$  e  ${\bf N}$ ", entre a recta " ${\bf r}$ " e o cono figura.



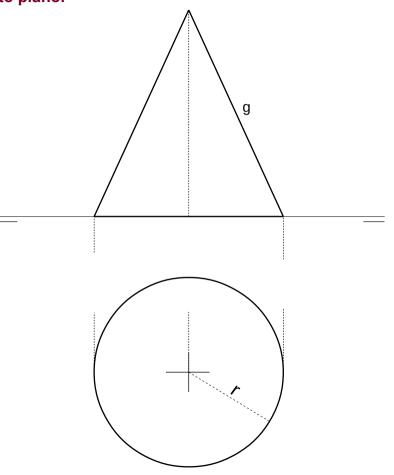
### Superficies radiadas: Pirámide. Prisma. Cono. Cilindro

Cono. Puntos de intersección recta cono.

Determinar os puntos de intersección "
 M e N", entre a recta "r" e o cono figura.



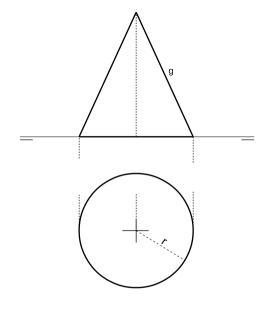
• Cono. Desenvolvemento plano.

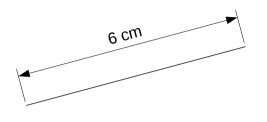


Xeratriz= 60mm (g)

Radio= 25mm (r)

Cono. Desenvolvemento plano.

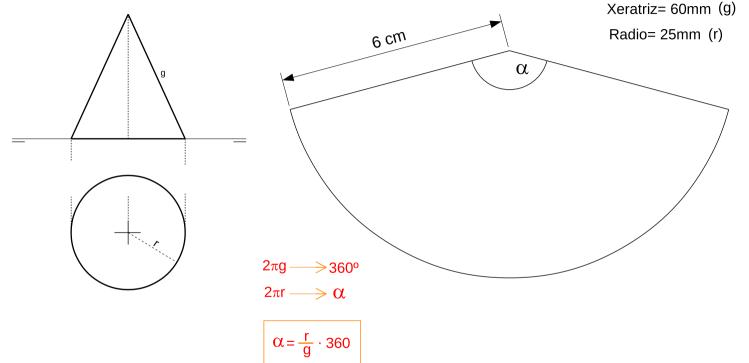




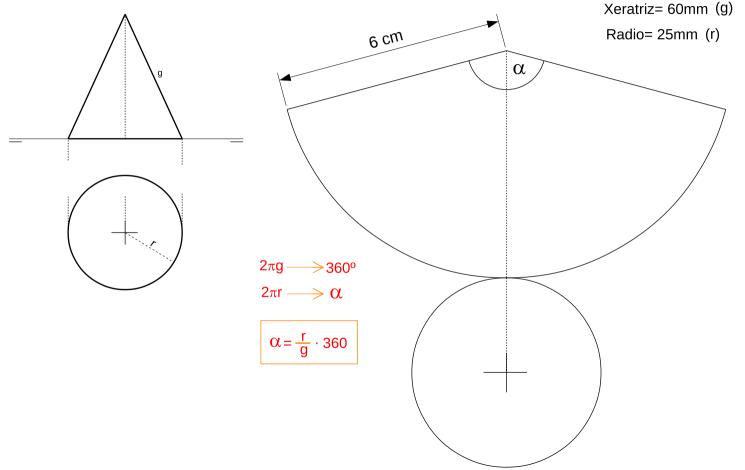
$$2\pi g \longrightarrow 360^{\circ}$$
 $2\pi r \longrightarrow \alpha$ 

$$\alpha = \frac{g}{r} \cdot 360$$

Xeratriz= 60mm (g) Radio= 25mm (r) Cono. Desenvolvemento plano.



Cono. Desenvolvemento plano.



· Cono. Desenvolvemento plano.

