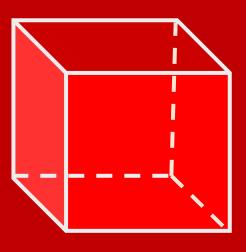


GEOMETRÍA

1rd secondary

RETROALIMENTACIÓN TOMOV

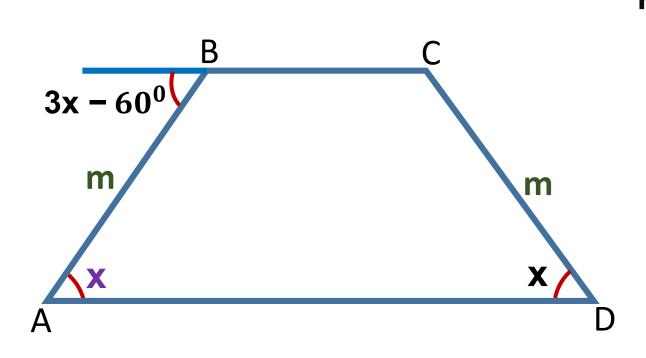






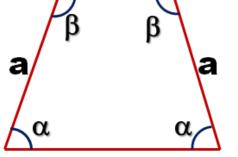
1. En el trapecio isósceles ABCD, \overline{BC} // \overline{AD} . Halle el valor de x.

Resolución:



Piden: x





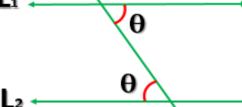
$$3 x - 60^{\circ} = x$$

$$2 x = 60^{\circ}$$

$$x = 30^{\circ}$$



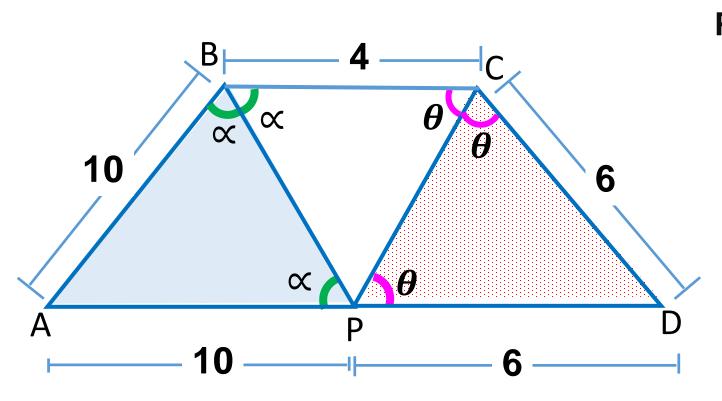
BC // AD





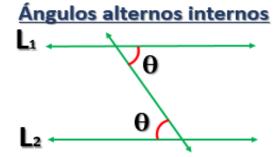
2. En el gráfico, BC // AD. Calcule AD.

Resolución:



Piden: AD

 $\overline{BC} /\!/ \overline{AD}$



• El △ BAP (Isósceles)

$$AB = AP = 10$$

EI A CPD (Isósceles)

$$CD = PD = 6$$

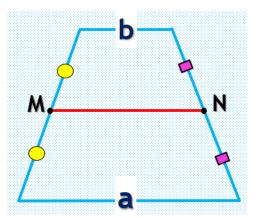


3. Hallar la longitud de la base media del trapecio

b B m b+3 M m 11

Resolución:

Piden: MN



MN BASE MEDIA DEL TRAPECIO

$$MN = \frac{a+b}{2}$$

$$b + 3 = \frac{b + 11}{2}$$

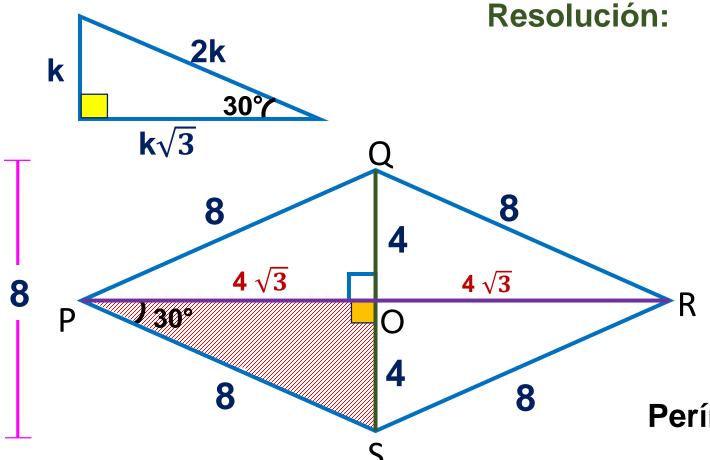
$$2b+6=b+11$$

 $b=5$

$$MN = 5 + 3 = 8$$



4. En la figura, QS = 8. Calcular el perímetro del rombo ABCD.



Piden: 2p

En el rombo PQRS

En ⊿ POS (Notable 30°- 60°)

• OP = OR =
$$4\sqrt{3}$$

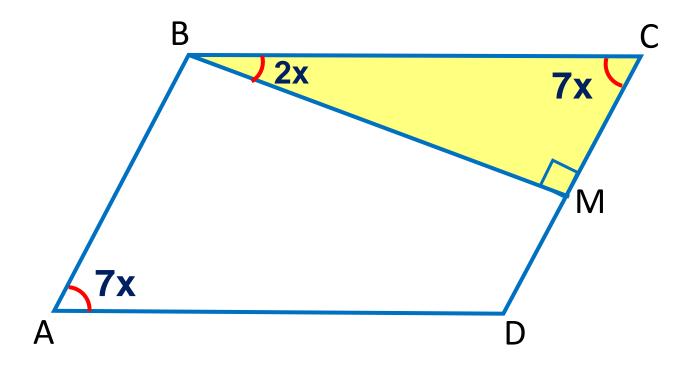
Perímetro del rombo

$$2p \implies = 8 + 8 + 8 + 8$$



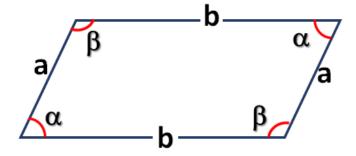
5. En la figura, ABCD es un romboide. Calcular x.

Resolución:



Piden: x

En el romboide ABCD



$$m \triangleleft BAD = m \triangleleft BCD = 7x$$

$$2 x + 7 x = 90^{\circ}$$

 $9 x = 90^{\circ}$

$$x = 10^{\circ}$$

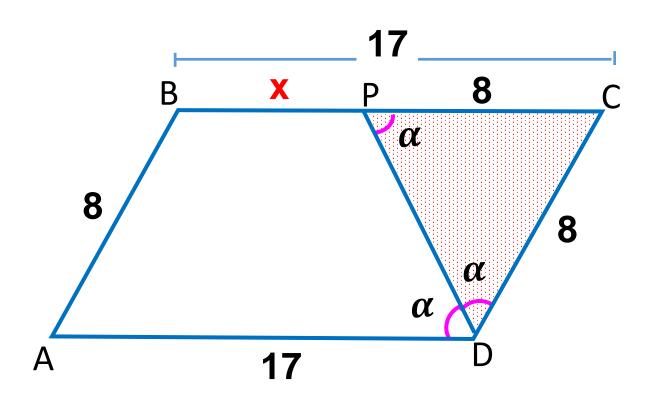


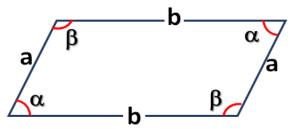
6. En la figura, ABCD es un romboide. Calcule BP.

Resolución:

Piden: BP = x

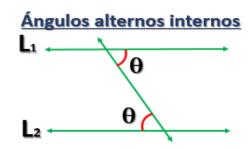
En el romboide ABCD





$$AB = CD = 8$$
 $AD = BC = 17$

$$\overline{BC} /\!/ \overline{AD}$$



• El △ PCD (Isósceles)

$$CD = PC = 8$$

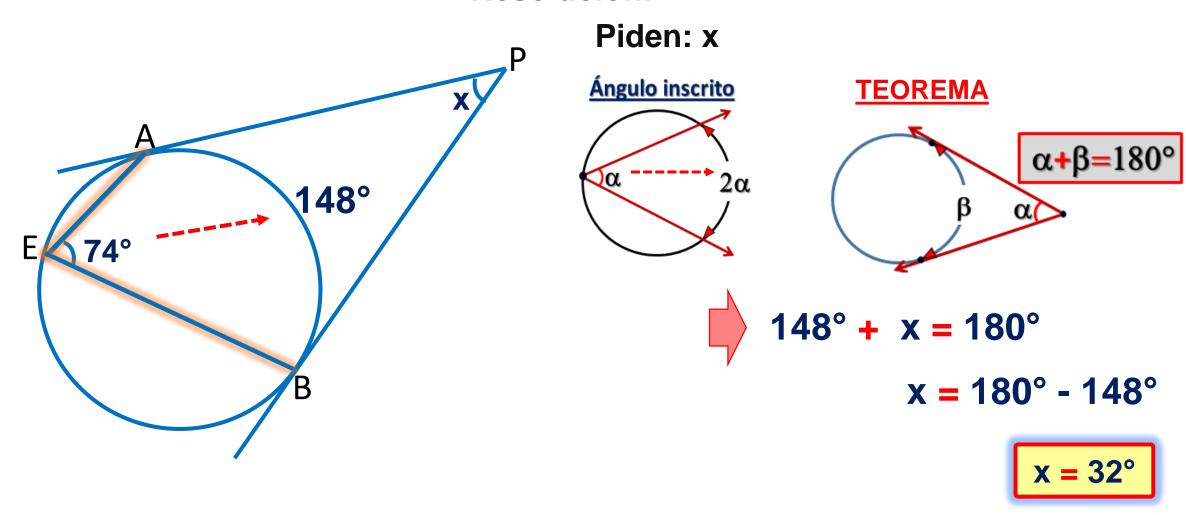
$$17 = 8 + x$$

$$x = 9$$



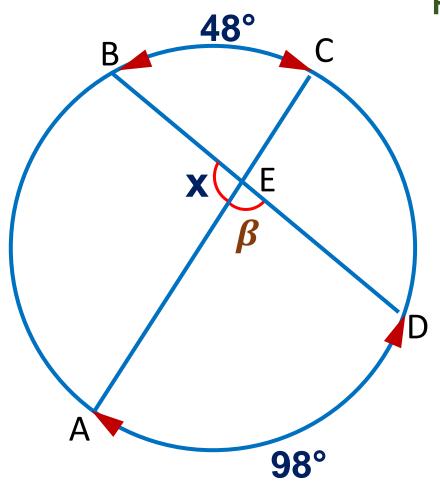
7. En la figura, halle el valor de x

Resolución:



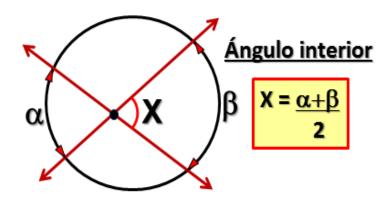


8. En la figura, halle el valor de x.



Resolución:

Piden: x



$$\beta = \frac{44^{\circ} + 98^{\circ}}{2} \longrightarrow \beta = 71^{\circ}$$

En \overline{BD}

$$x + \beta = 180^\circ$$

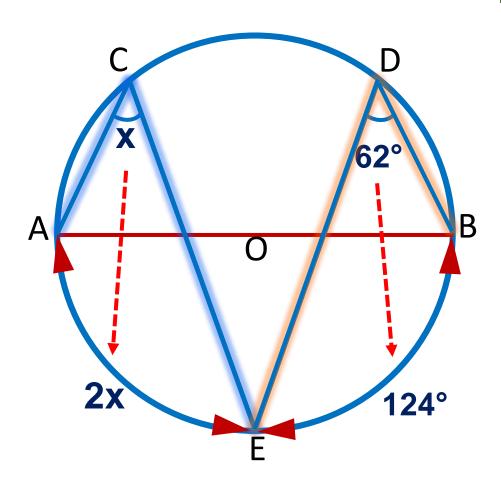
$$x + 71^{\circ} = 180^{\circ}$$

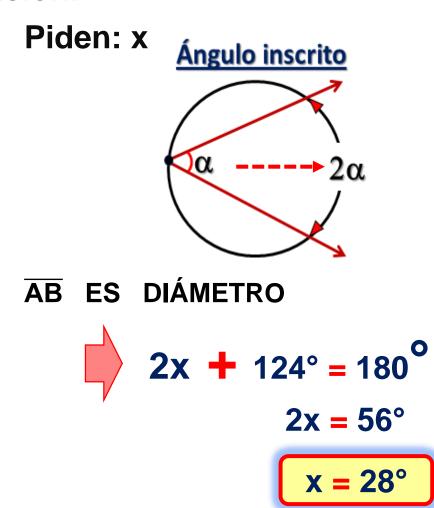
$$x = 109^{\circ}$$



9. En la figura, AB es diámetro, halle el valor de x

Resolución:



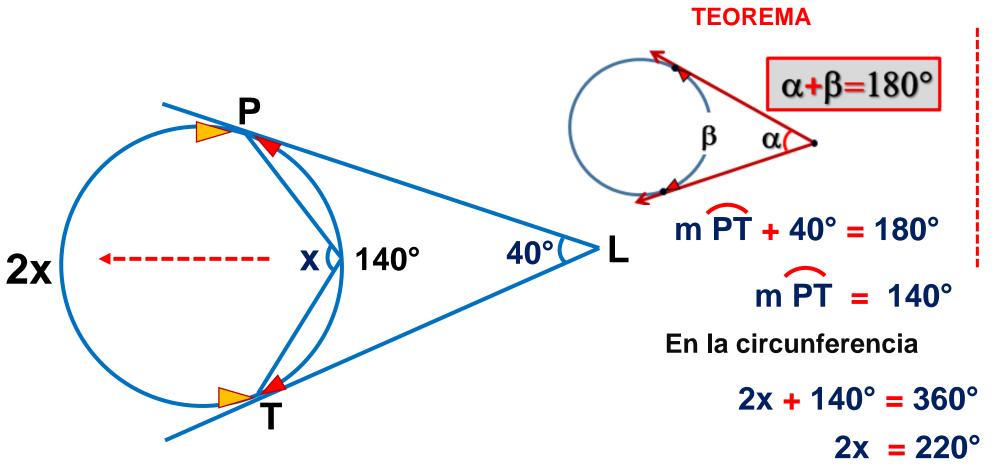




10. En la figura, P y T son puntos de tangencia. Halle el valor de x.



Piden: x



TEOREMA

