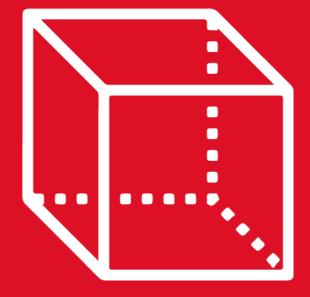


GEOMETRÍA Capítulo 13 SESIÓN II





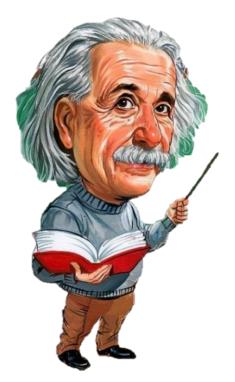
CIRCUNFERENCIA II



MOTIVATING | STRATEGY

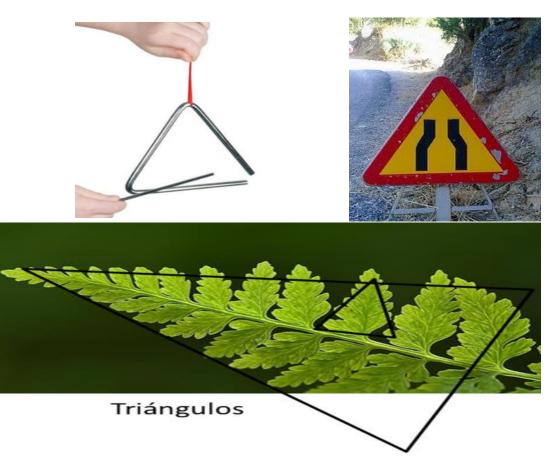


El triángulo es una de las figuras geométricas elementales y, por lo tanto, el conocimiento de sus teoremas, clases, etc., es básico para comprender mejor a las demás figuras geométricas que estudiaremos posteriormente. Esta figura tiene en la actualidad diferentes usos y aplicaciones como podemos observar.

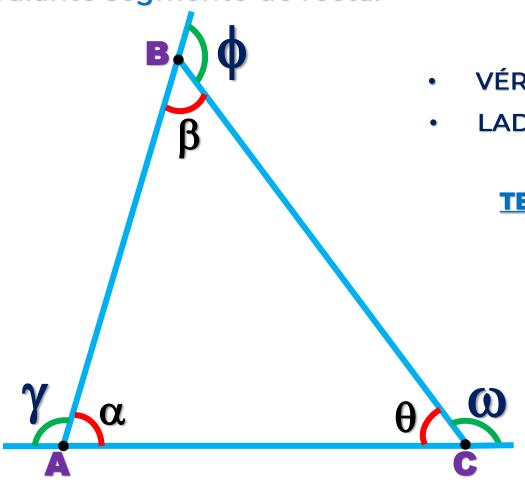








<u>Definición</u>: Es aquella figura geométrica formada al unir 3 puntos no colineales mediante segmento de recta.



- VÉRTICES: A, B y C
- LADOS : \overline{AB} , \overline{BC} y \overline{AC}

TEOREMAS

$$\alpha + \beta + \theta = 180^{\circ}$$

$$\omega + \phi + \gamma = 360^{\circ}$$

$$\omega = \alpha + \beta$$

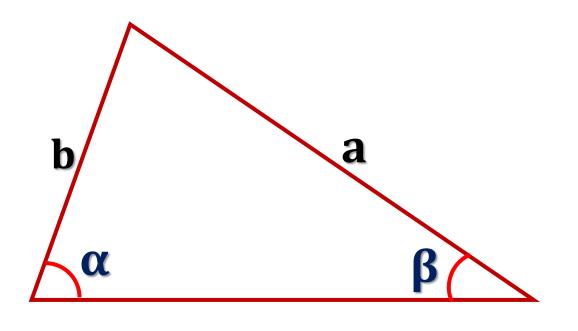
$$\phi = \alpha + \theta$$

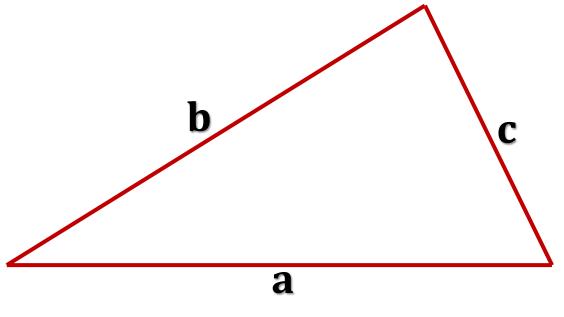
$$\gamma = \beta + \theta$$



Teorema de la correspondencia

Teorema de la existencia

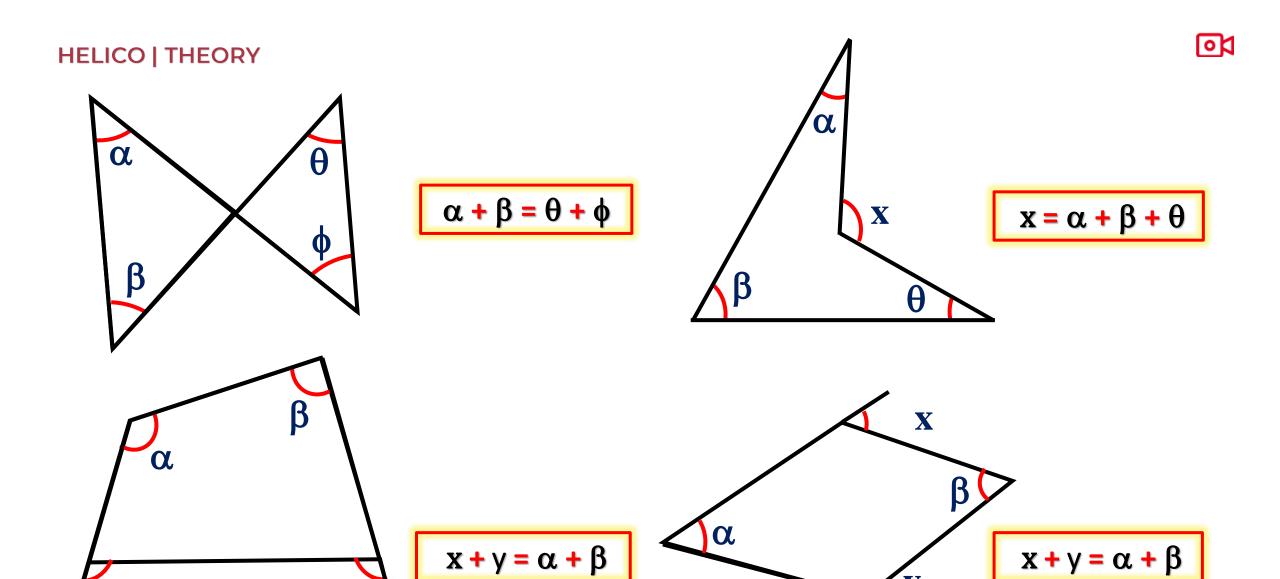




Si: $\beta < \alpha$

b < a

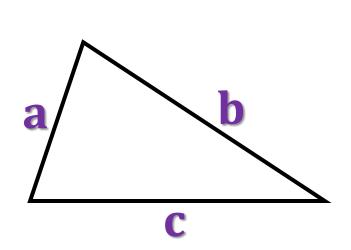
donde: c < b < a



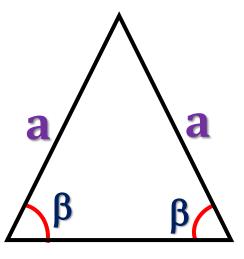


Clasificación

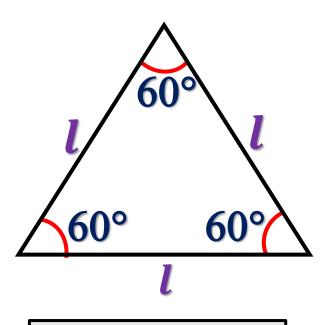
1. Según las medidas de los lados.



∆ Escaleno



Δ Isósceles

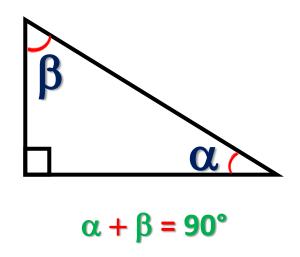


∆ Equilátero

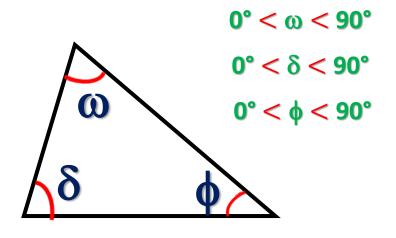


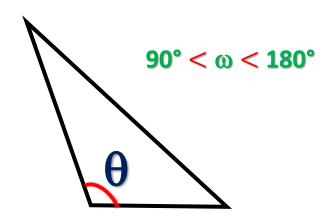
2.Clasificación según las medidas de sus ángulos.

∆ Rectángulo



∆ Oblicuángulo



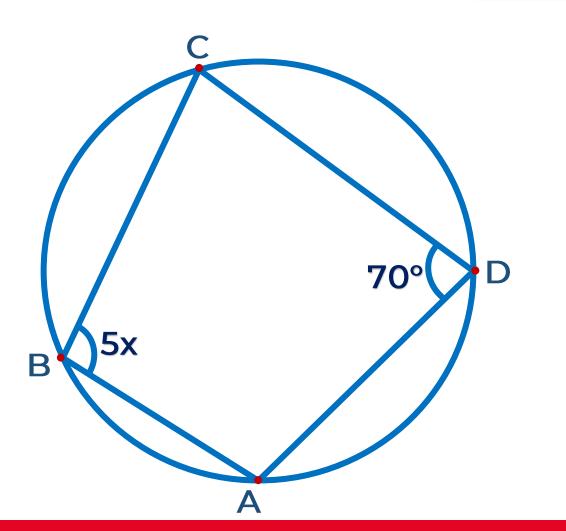


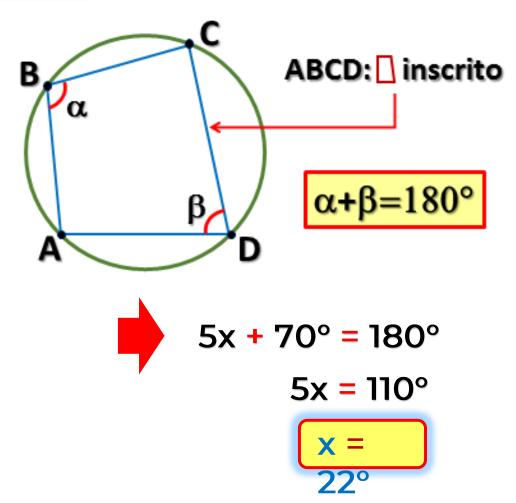
∆ Acutángulo

∆ Obtusángul

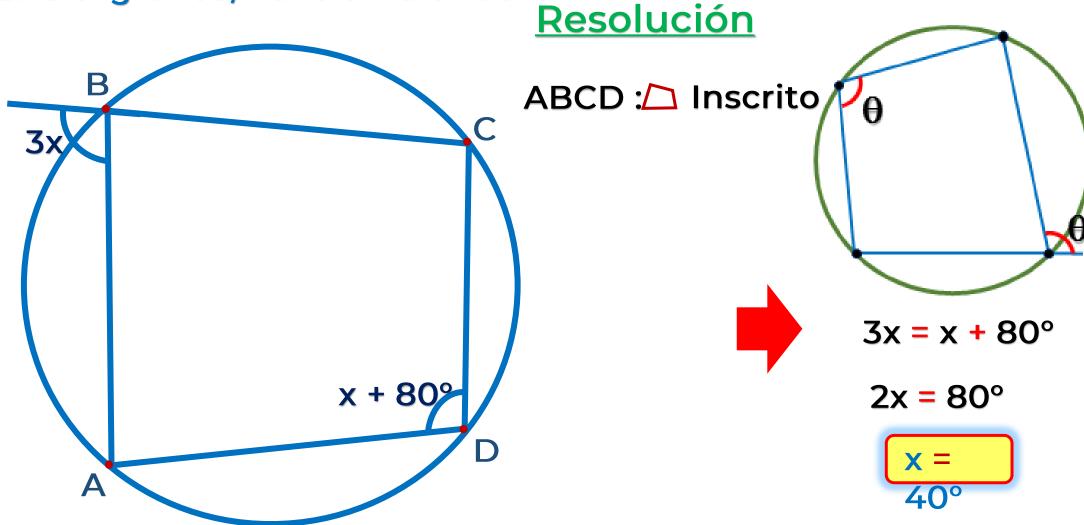


Resolución

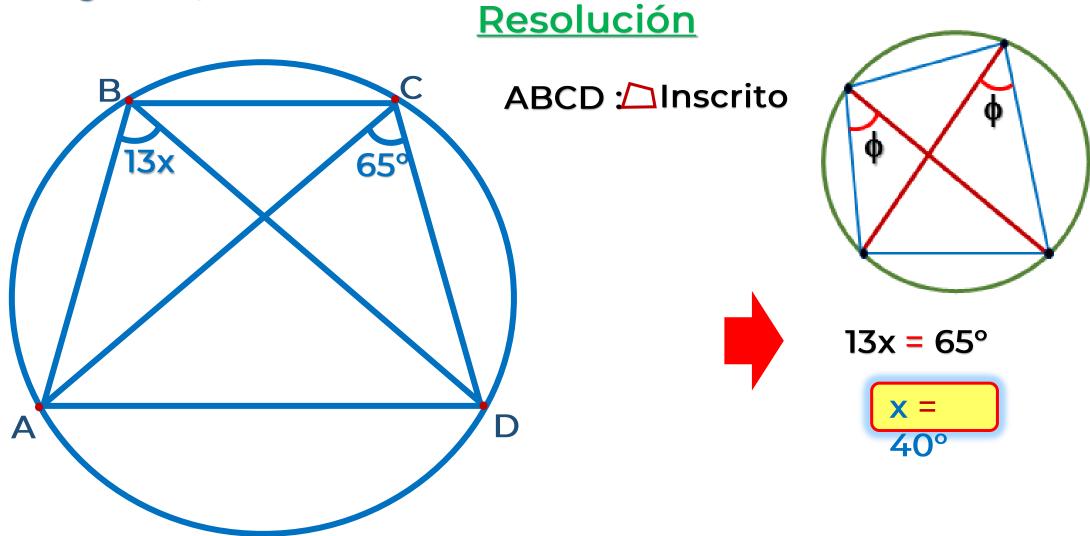






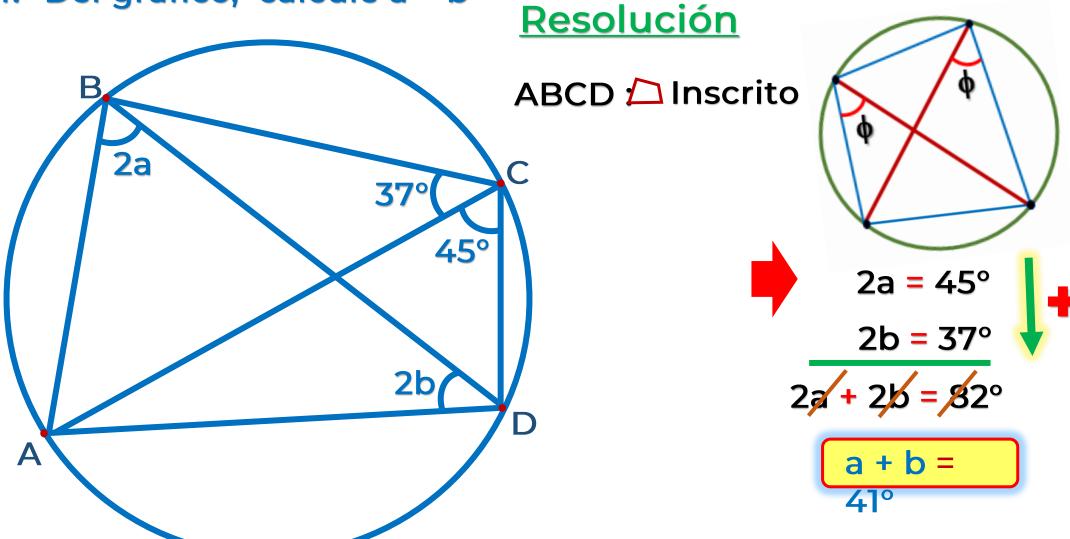








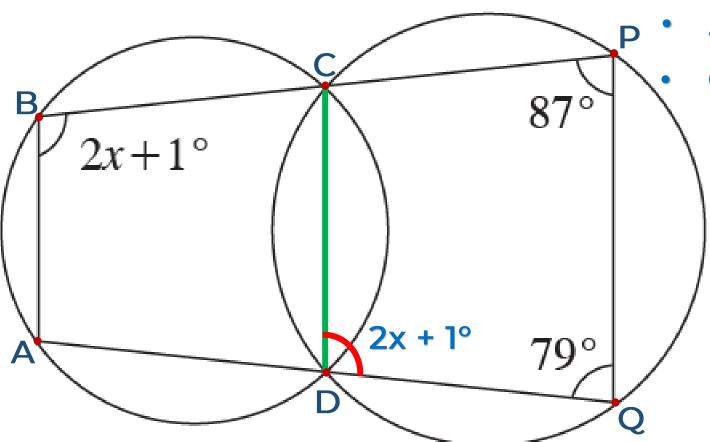
4. Del gráfico, calcule a + b



01

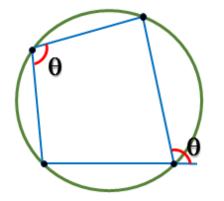
5. Del gráfico, halle el valor de x.

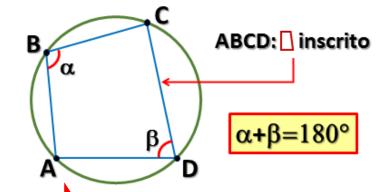






CPQD : Inscrito.



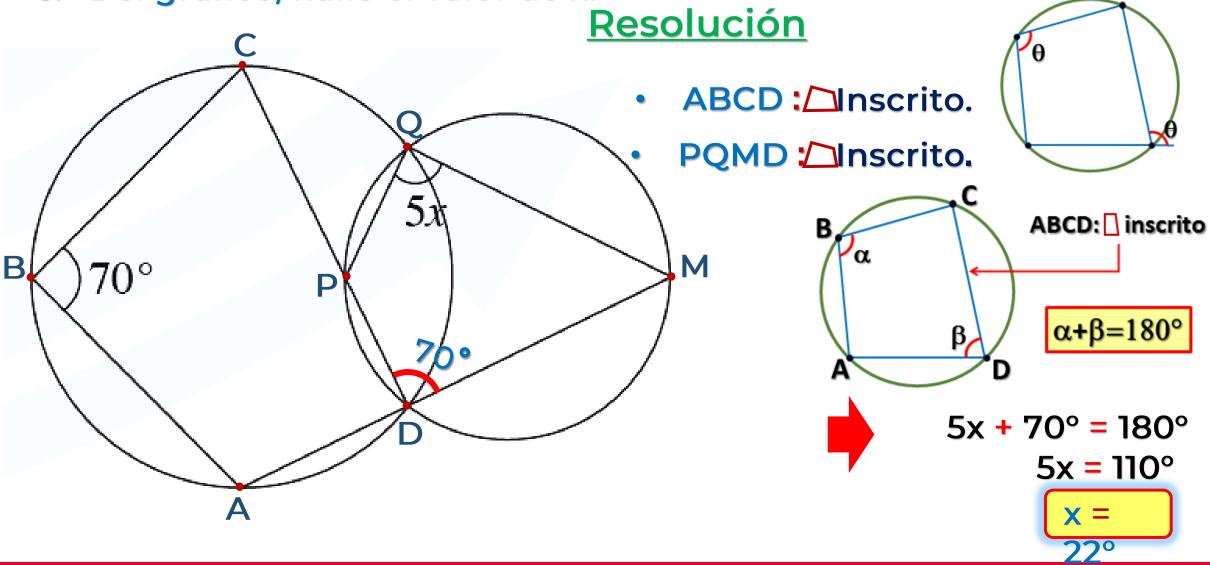


$$2x + 1^{\circ} + 87^{\circ} = 180^{\circ}$$

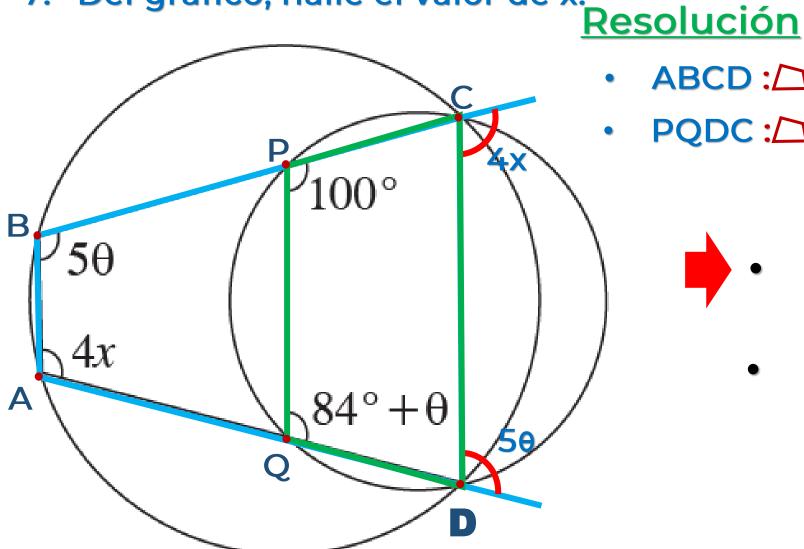
 $2x + 88^{\circ} = 180^{\circ}$
 $2x = 92^{\circ}$



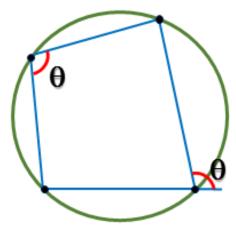








- ABCD : Inscrito.
 - PQDC: Inscrito.



- $50 = 100^{\circ}$
 - e = 20°
- $4x = 84^{\circ} + \theta$
- $4x = 84^{\circ} 20^{\circ}$
- $4x = 104^{\circ}$



8. Se muestra un parque circular con una vereda diametral AB y en el centro O un poste. Si OD = DC y mBC =40°, halle mAE.

