

GEOMETRÍA

2do SECONDARY

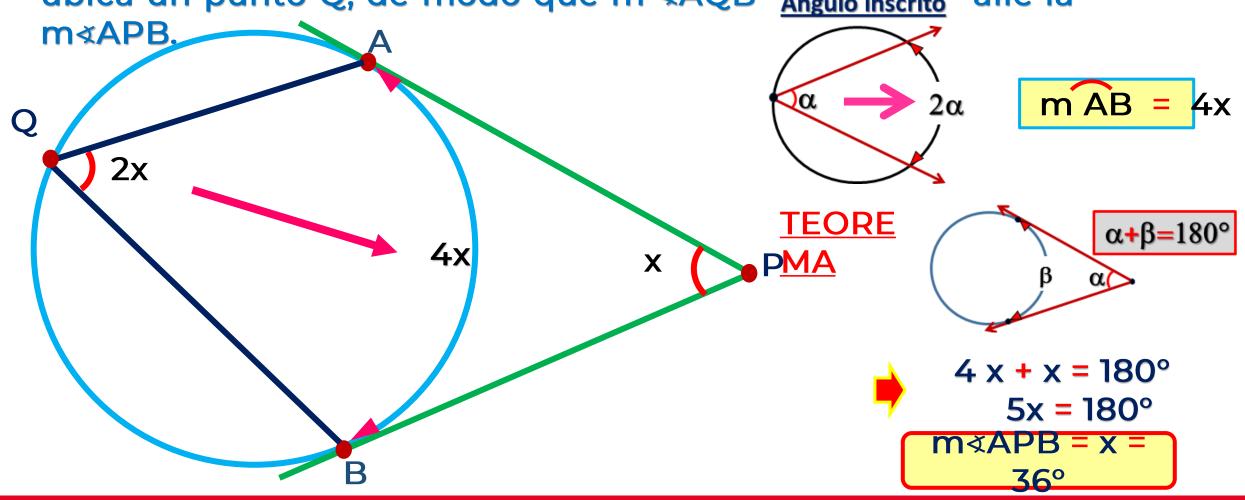


Asesoría





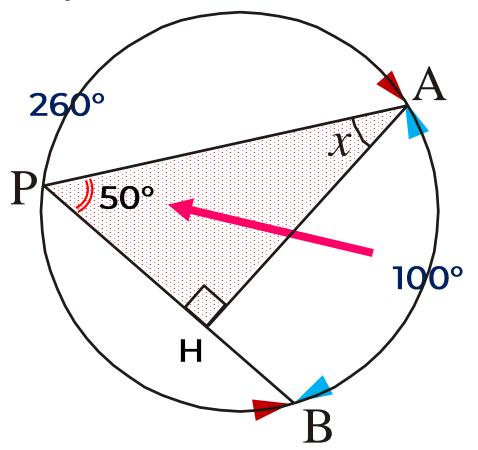
1.Desde un punto P exterior a la circunferencia, se trazan los segmentos tangentes \overline{PA} y \overline{PB} , luego en le arco mayor se ubica un punto Q, de modo que m «AQB Ángulo inscrito" alle la





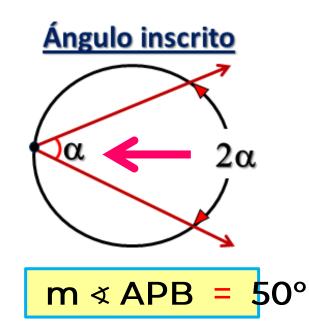
2.En el gráfico, la m APB = 260°. Halle el valor de x

Nos piden: x



En la circunferencia

$$mAB = 100$$



En el ⊿ PHA

$$50^{\circ} + x = 90^{\circ}$$

χ = 40°



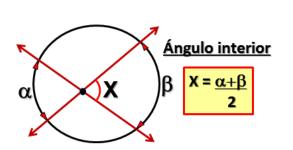
Angulo exterior

 $X = \alpha - \beta$

3.En el gráfico, halle el válor de

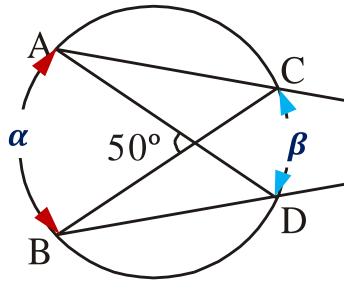
m AB



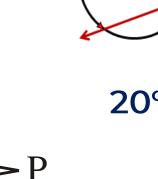


$$50^{\circ} = \frac{\alpha + \beta}{2}$$

$$100^{\circ} = \alpha + \beta \dots (1)$$







$$40^{\circ} = \alpha - \beta \qquad \dots (2)$$

Ecuaciones 1 y 2

$$100^{\circ} = \alpha + \beta$$

$$40^{\circ} = \alpha - \beta$$

$$140^{\circ} = 2\alpha$$
(+)

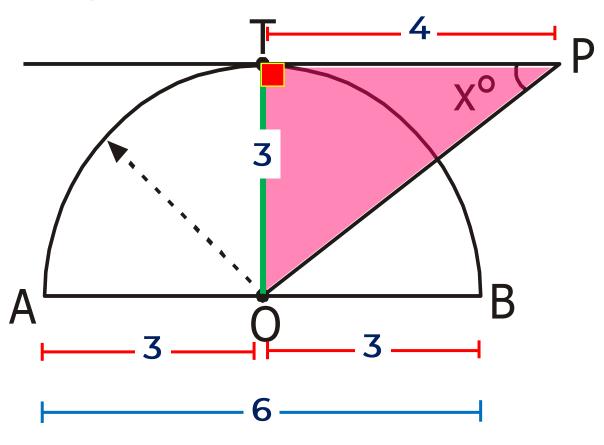
$$40^{\circ} = 2\alpha$$

 $70^{\circ} = \frac{\alpha = mAB}{70^{\circ}} = \frac{\pi}{70^{\circ}}$

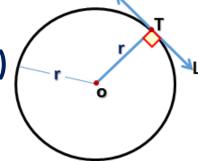


4.En el gráfico, si: PT = 4 u y AB = 6 u. (T: punto de tangencia). Halle el valor de x

Nos piden: x



• Se traza $\overline{07}$ (Radio)



• \overline{AB} es diámetro (AB = 6)

$$\rightarrow$$
 AO = OB = OT = (Badio)

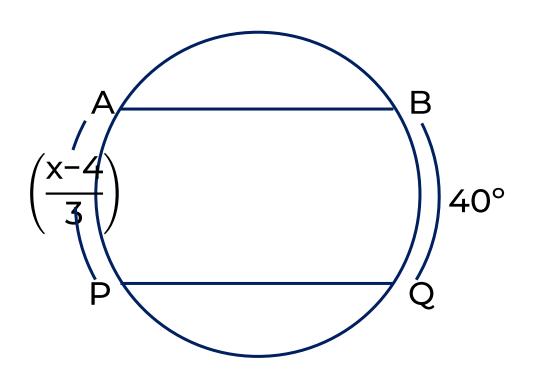
• En el △ OTP(Notable 37° - 53)

x = 37°

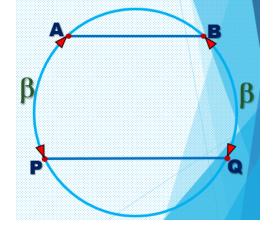


5.En el gráfico, si $\overline{AB} // \overline{PQ}$, Hale el valor de x

Nos piden: x







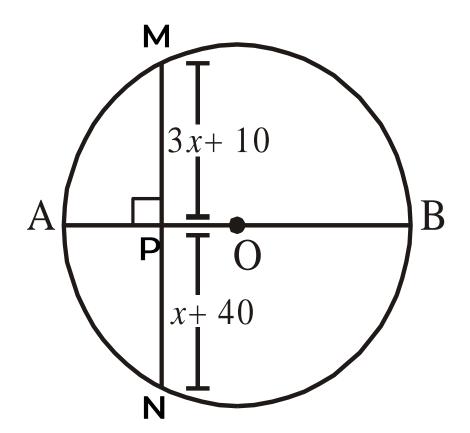
$$x - 4^{\circ} = 120^{\circ}$$



6.En el gráfico, si O es centro de la circunferencia. Halle el

valor de x

Nos piden: x







$$MP = NP$$

$$3 x + 10 = x + 40$$

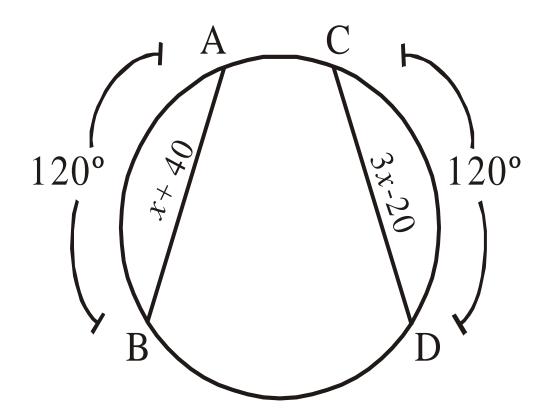
$$2 x = 30$$

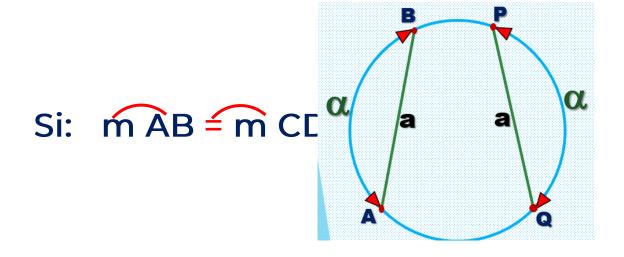
$$x = 15$$

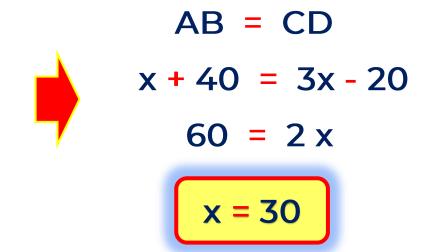


7.En el gráfico, halle el valor de x.

Nos piden: x



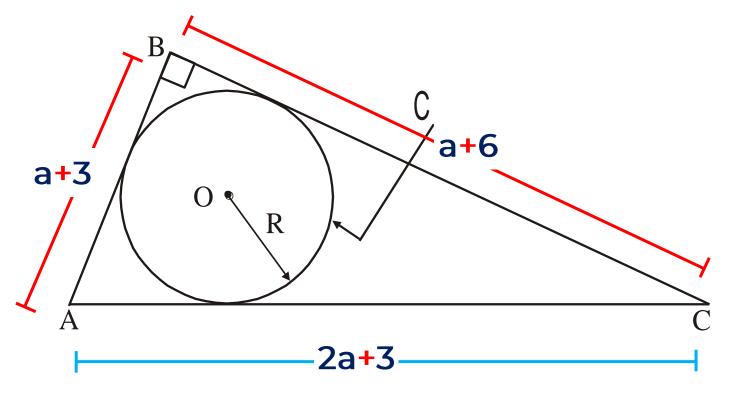


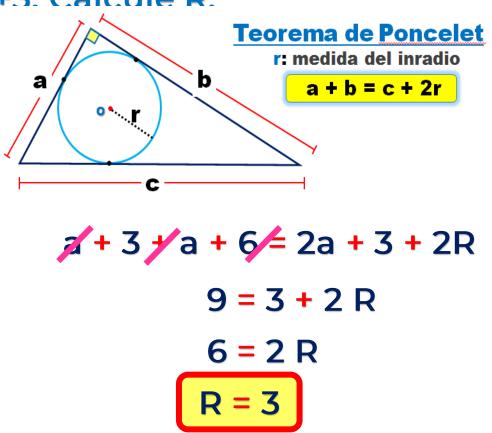




8.En la figura C es una circunferencia inscrita en el triángulo rectángulo ABC, AB=a+3, BC=a+6, AC=2a+3. Calcule R.

Nos piden R = Longitud del inradio

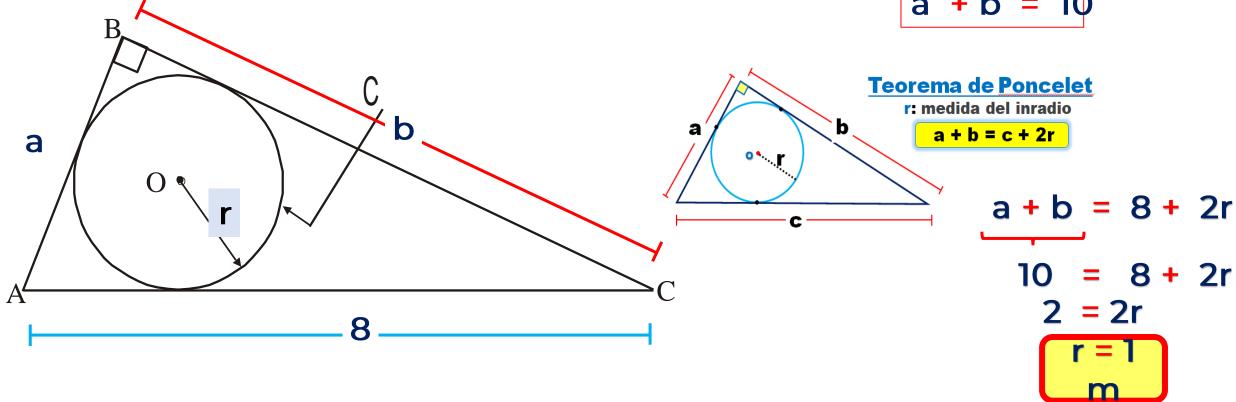






9.En un triángulo ABC recto en B, su perímetro es igual a 18 m, si su hipotenusa mide 8m. Halle la longitud de la longitud del inradio.

Nos piden: inradio Perímetro del triáng@ b_{\wedge} = a + 8 + b = 18

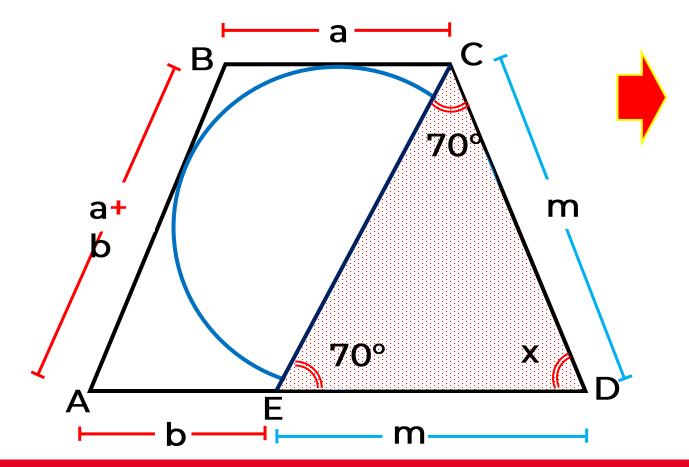


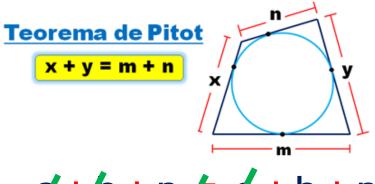


10.En la figura se muestra una circunferencia inscrita, si AB = BC+

AE. Halle el valor de x

Nos piden: x





$$a + b + n = a + b + m$$

 $n = m$

El Δ ECD(Isósceles)

$$70^{\circ} + x + 70^{\circ} = 180^{\circ}$$

 $x + 140^{\circ} = 180^{\circ}$

