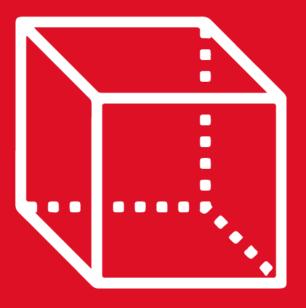


## GEOMETRÍA ASESORIA

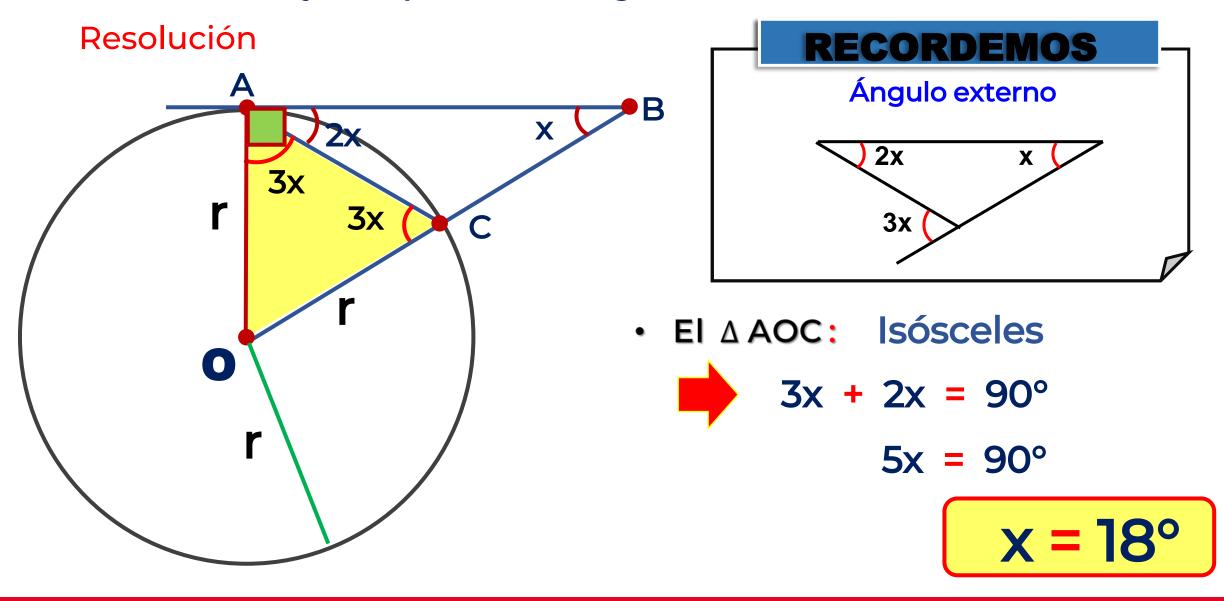


Tomo 4



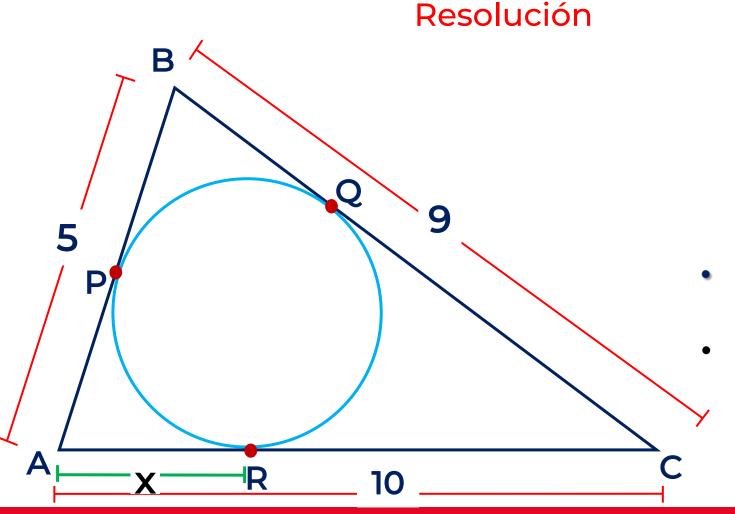


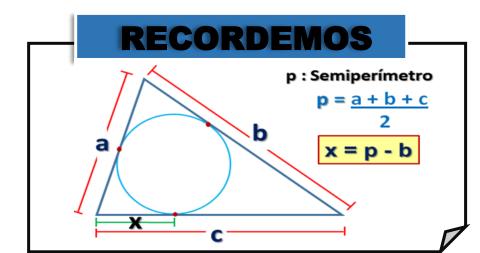
## 1. Si O es centro y A es punto de tangencia, halle el valor de x



2. En un triángulo ABC, donde AB = 5, BC = 9 y AC = 10, la circunferencia inscrita es tangente a AB, BC y  $\overline{AC}$  en los puntos P, Q y R, respectivamente.

Halle AR.





$$p = \frac{5+9+10}{2}$$

$$p = 12$$

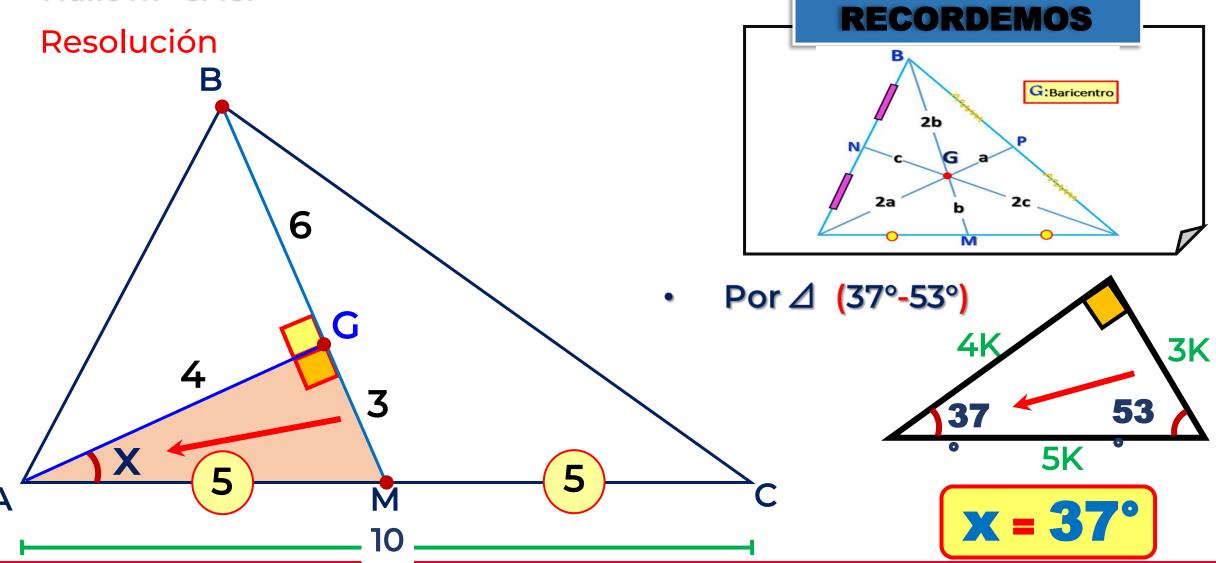
$$x = p - b$$

$$X = 12 - 9$$

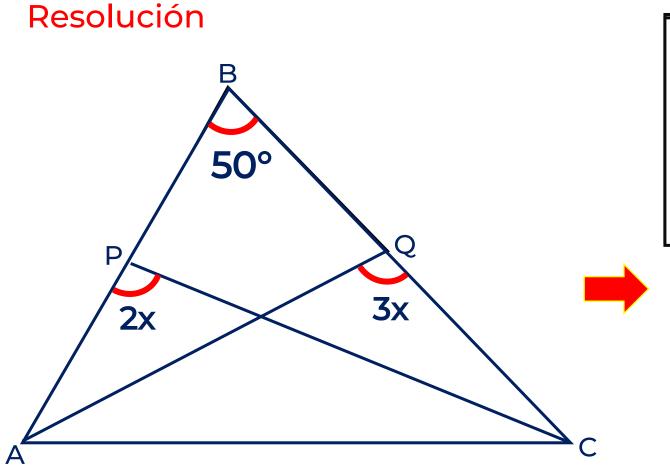
$$x = 3$$

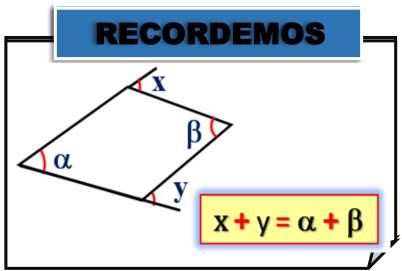
3. En una región triangular ABC de baricentro G, BG = 6; AC = 10 y m∢AGB=90°.

Halle m<GAC.



## 4. Si O es circuncentro del triángulo ABC, halle el valor de x.





• m∢AOC = 2( 50°)

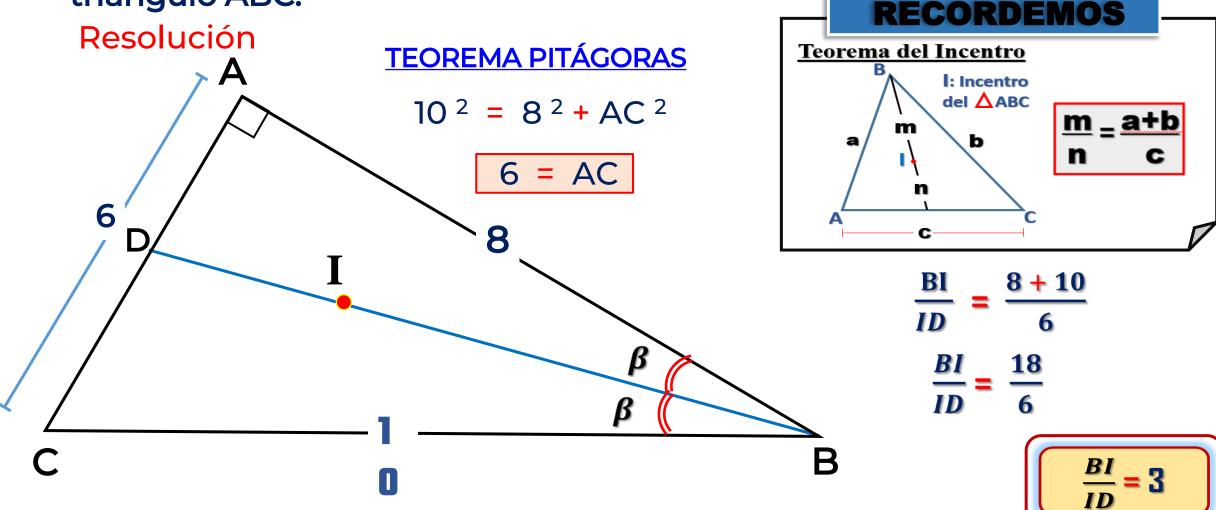
m∢AOC = 100°

• 
$$3x + 2x = 50^{\circ} + 100^{\circ}$$
  
 $5x = 150^{\circ}$ 

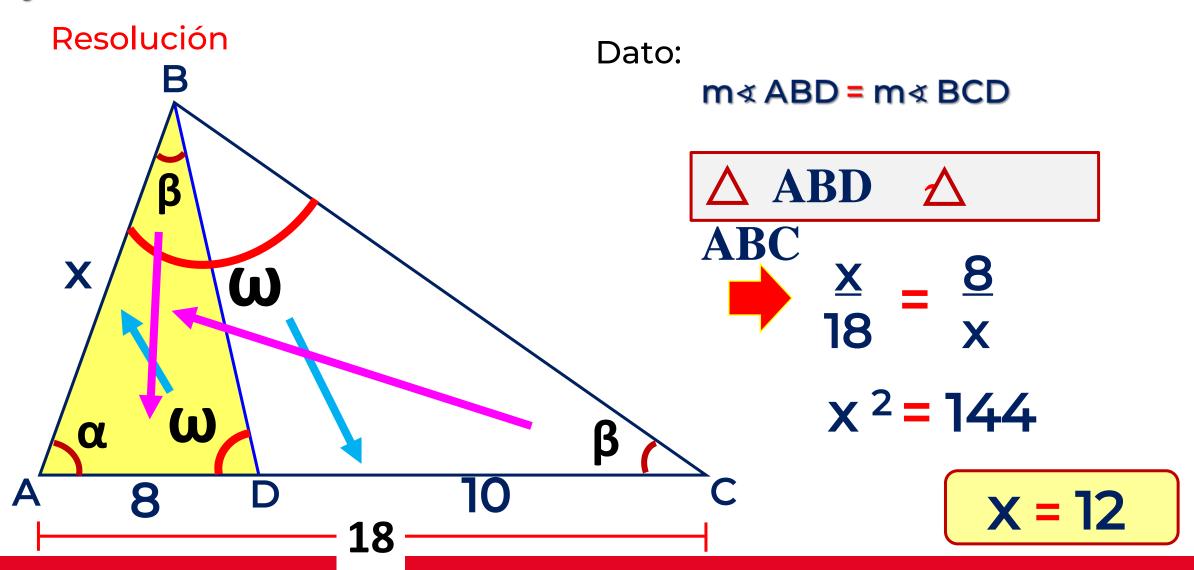
 $x = 30^{\circ}$ 

5. En un triángulo rectángulo ABC, recto en A, se traza la bisectriz interior BD. Halle (BI/ID) si AB=8, BC=10 y, además, I es incentro del

triángulo ABC.



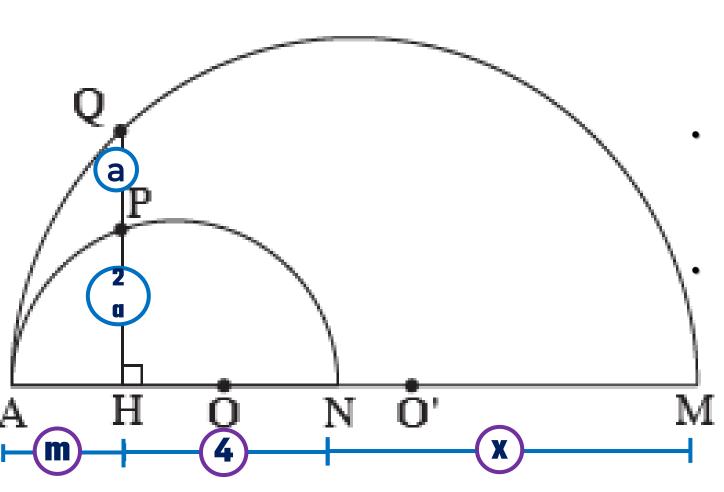
6. En un triángulo ABC se traza la ceviana interior BD tal que AD = 4, DC = 12 y m∢ ABD = m∢ BCD. Halle AB.

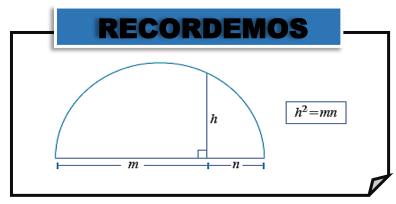


7. En la siguiente figura, PH=2(PQ). Si HN=4. Además O y O' centros de las

semicircunferencias, halle MN.

Resolución





En el diámetro  $\overline{AN}$ 

$$(2a)^2 = (m)(4)$$

$$\#a^2 = (m)(\#)$$

$$a^2 = r$$

<u>En el diámetro  $\overline{AM}$ </u>

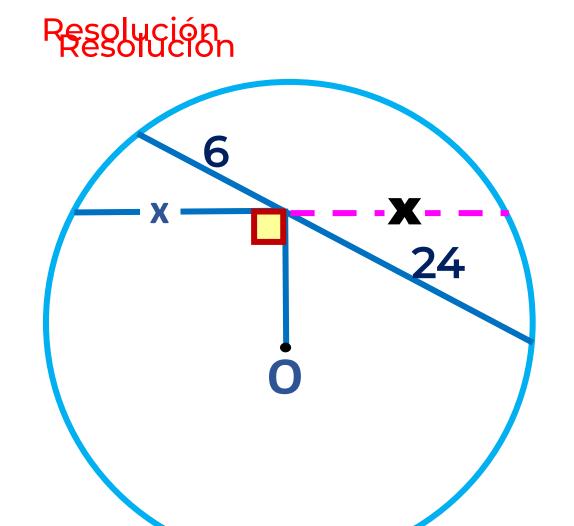
$$(3a)^2 = (m)(4+x)$$

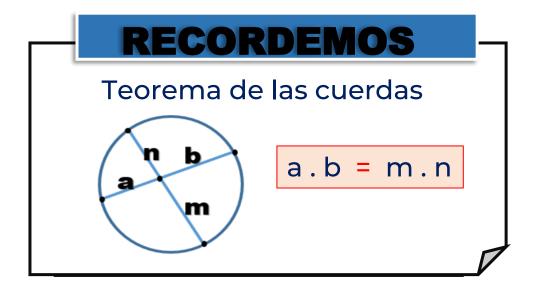
$$9a^{2} = (m)(4+x)$$

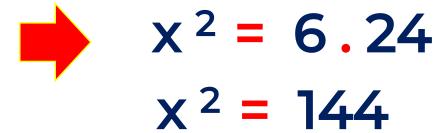
$$9 \text{ pr} = (\text{pr}) (4 + x)$$

$$x = 5$$

## 8. Si O es centro, halle el valor de x.

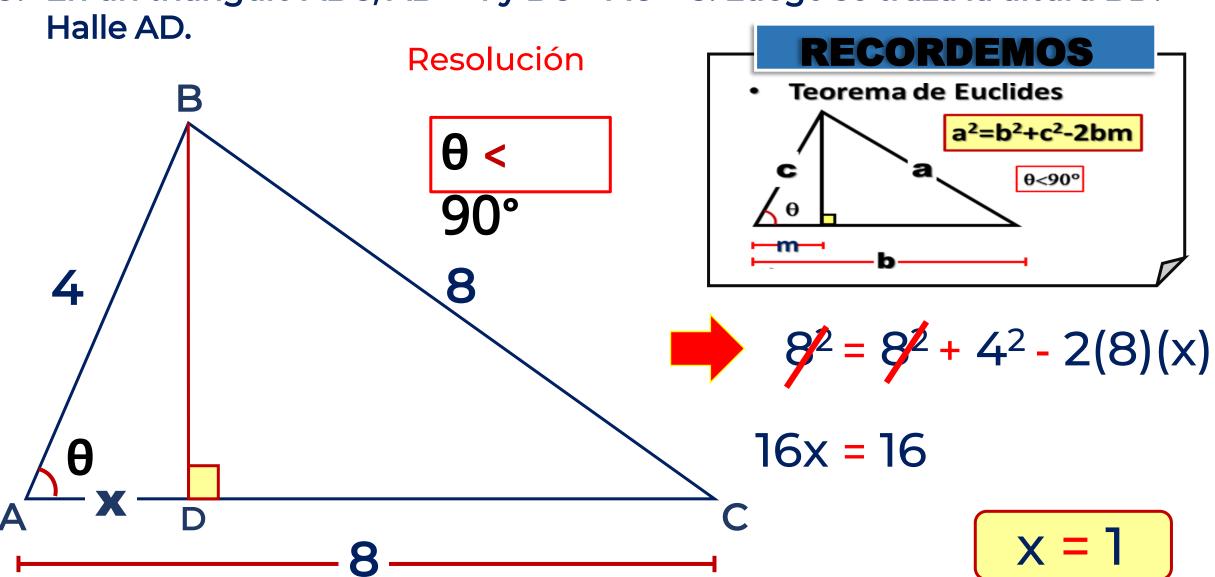






x = 12

9. En un triángulo ABC, AB = 4 y BC = AC =  $8 \cdot \text{Luego se traza la altura BD}$ .



10. En un triángulo ABC, se traza la mediana BM. Si BM = 4, BC = 9 y AB = AM = MC.

Halle AB.

