

# GEOMETRÍA Tomo 3

3st SECONDARY

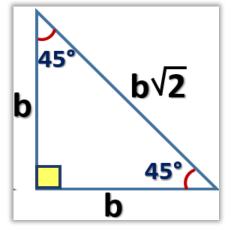
Retroalimentación





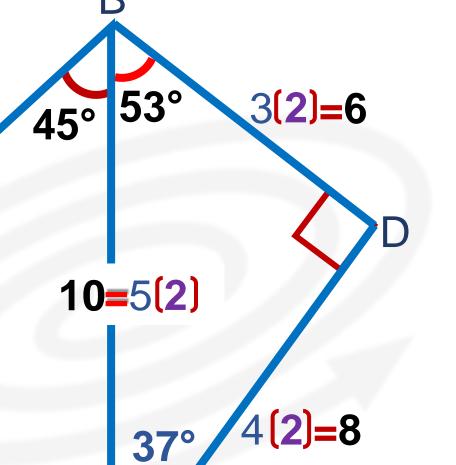






45°





$$K = \frac{10 + 8}{6}$$

Nos piden

AC+CD

**BD** 

$$K = 3$$

#### **HELICO | PRACTICE**

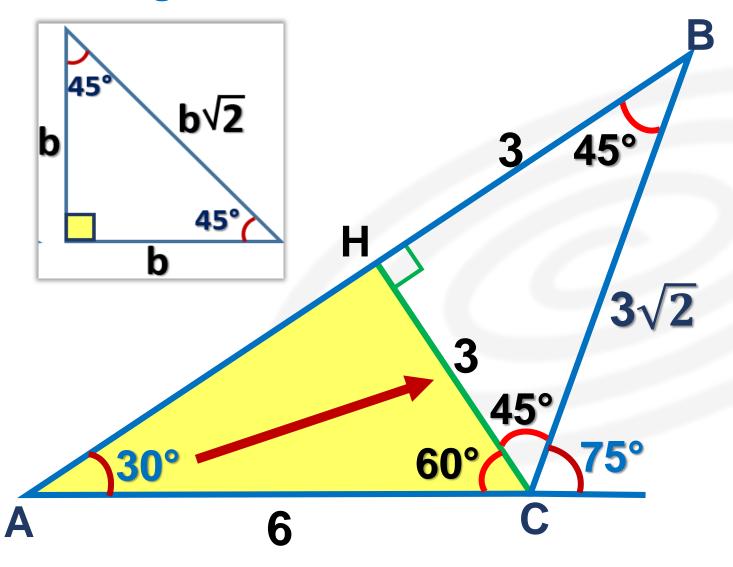


2. Se observa una madera en cuyos extremos están situados los puntos A y B. Si dicha madera forma con el piso un ángulo de 45°, la altura de la pared tiene una medida de (x + 9)m y la distancia del punto B a la pared es

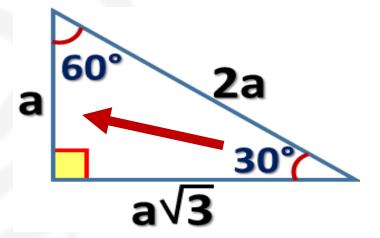
de (3x - 1)m, ¿cuánto mide la madera? **b**√2 3x - 1 = x + 945° 2x = 10b x = 5Nos piden  $AB = 14\sqrt{2} \text{ m}$ 45° 45° (3x - 1) m



#### 3. En la figura, calcule AC.



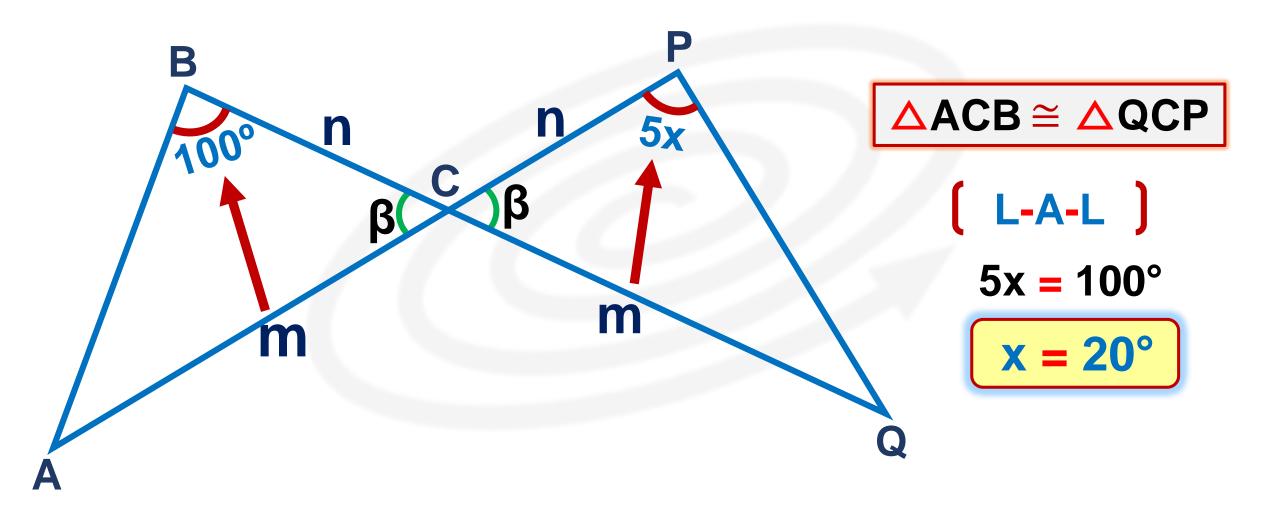
Trazamos la altura CH.



Nos piden

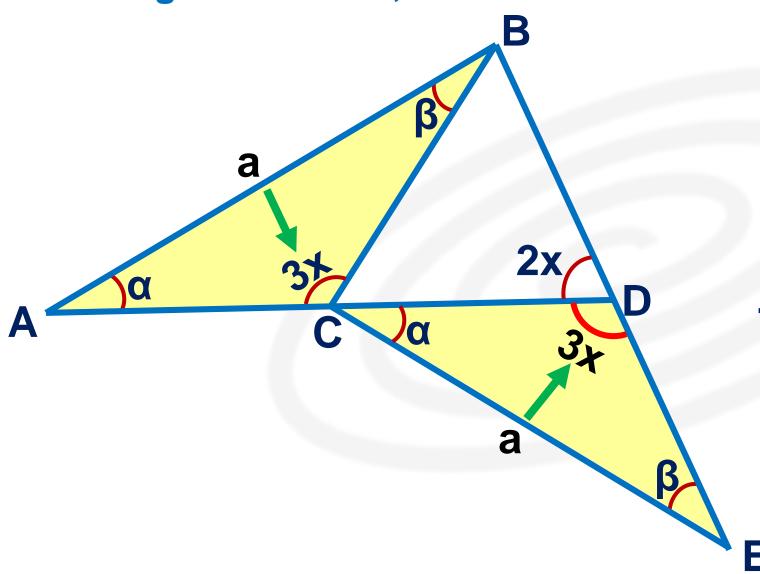


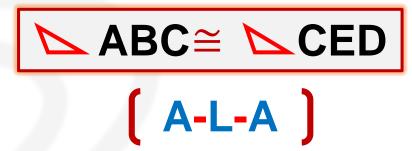
## 4. En la figura, BC = CP y AC = CQ. Calcule x.





#### 5. En la figura AB = CE, calcule x.





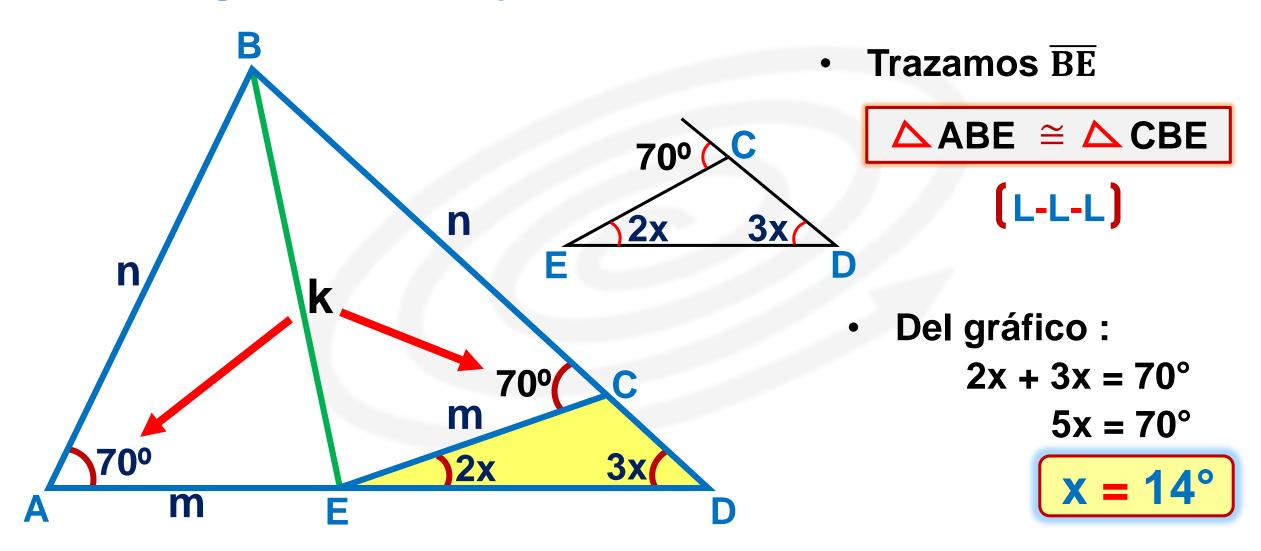
# Del gráfico

$$2x + 3x = 180^{\circ}$$
  
 $5x = 180^{\circ}$ 

$$x = 36^{\circ}$$

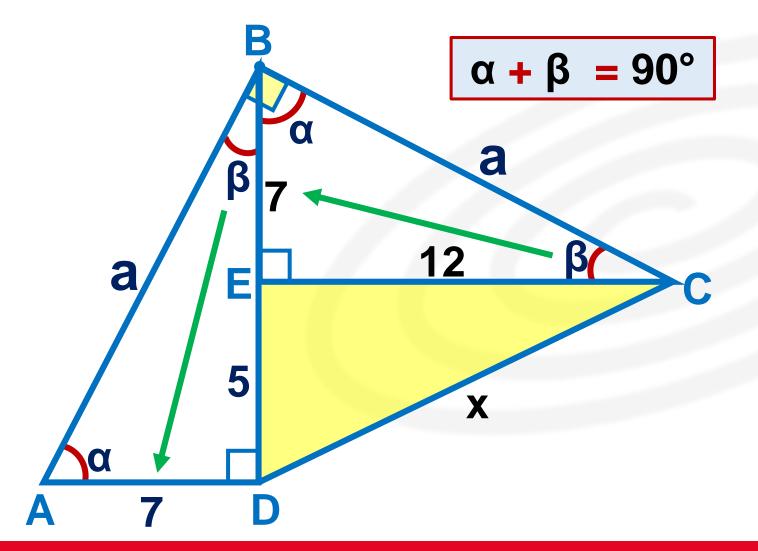


## 6. En la figura AB = BC y AE = CE, calcule x.





#### 7. En la figura, AB = BC, calcule CD.



# **►**ABD≅ **►**BCE

$$AD = BE = 7$$

$$EC = 7 + 5$$

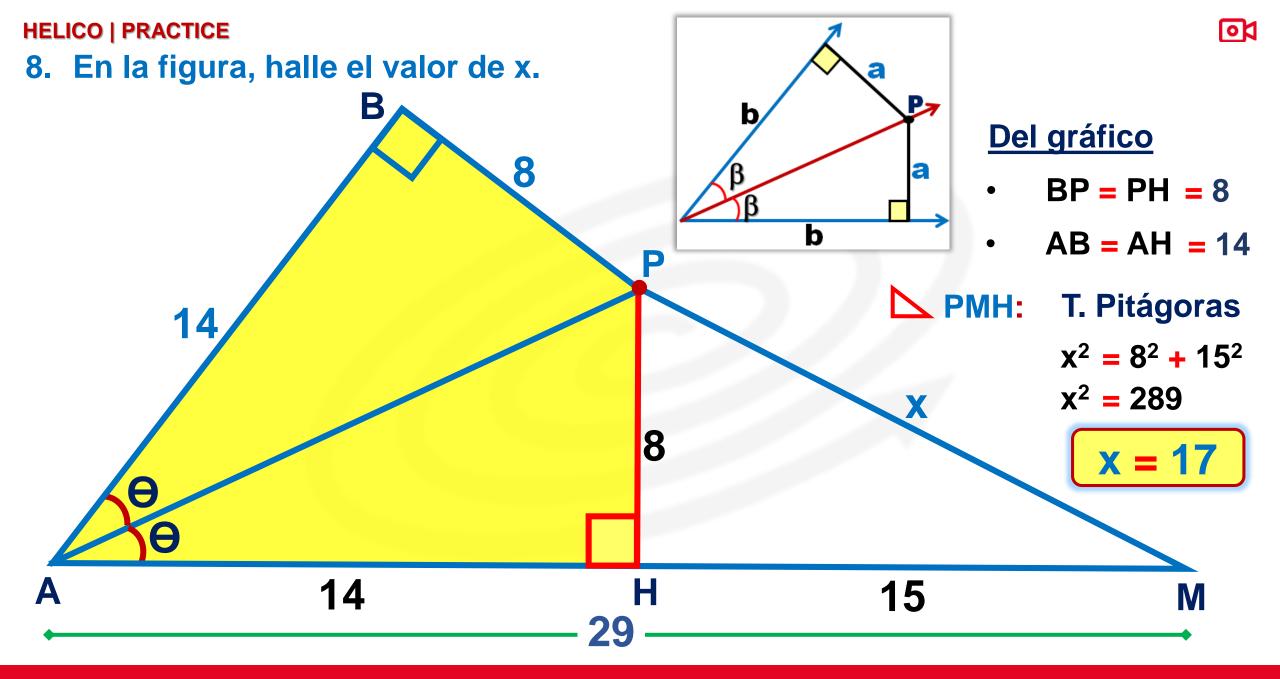
$$EC = 12$$

#### **► CED T. Pitágoras**

$$x^2 = 5^2 + 12^2$$

$$x^2 = 169$$

$$x = 13$$



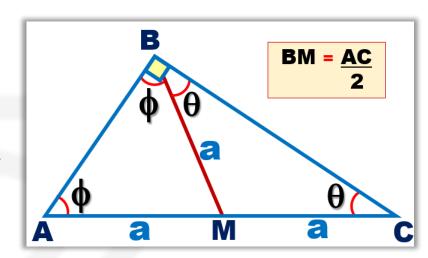
**5**x

a



#### 9. En la figura, halle el valor de x.

- Trazamos  $\overline{BM}$ .
- BM: mediana relativa a la hipotenusa.



- ABM: Isósceles
- ▲BMN: Isósceles

a

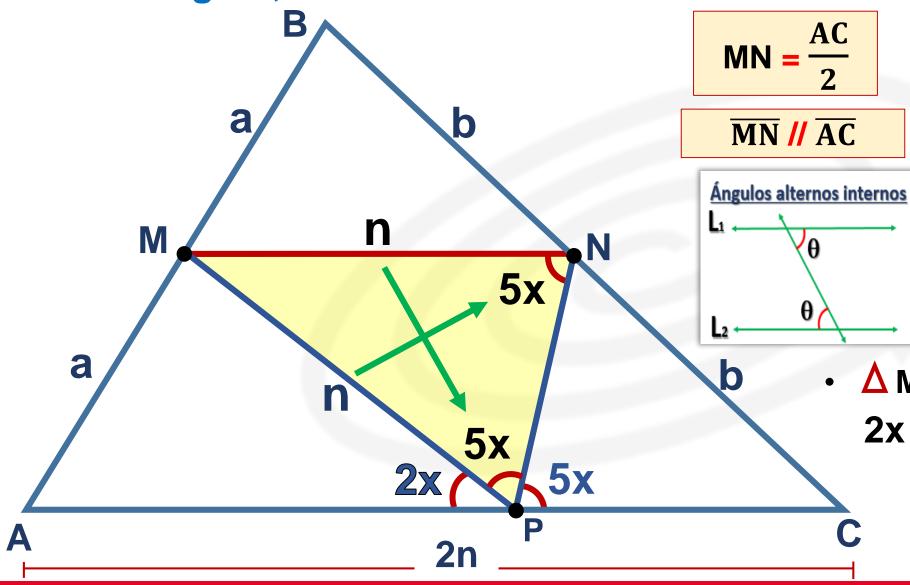
$$5x + x = 90^{\circ}$$
 $6x = 90^{\circ}$ 
 $x = 15^{\circ}$ 

 $6x = 90^{\circ}$ 

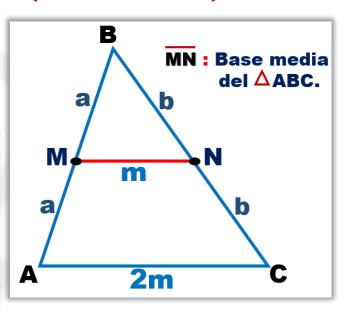
5x



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



Trazamos MN
 (Base media)



 \( \Delta \) MNP: Isósceles

$$2x + 5x + 5x = 180^{\circ}$$

$$12x = 180^{\circ}$$

$$x = 15^{\circ}$$