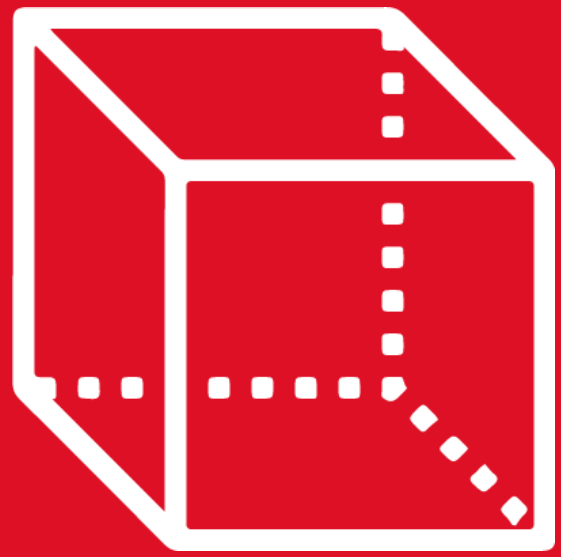
GEOMETRÍA

Capítulo 1



2st
SECONDARY

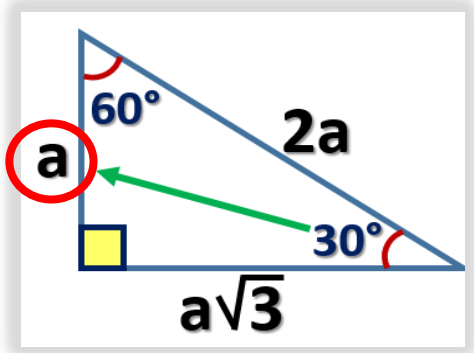
Repaso

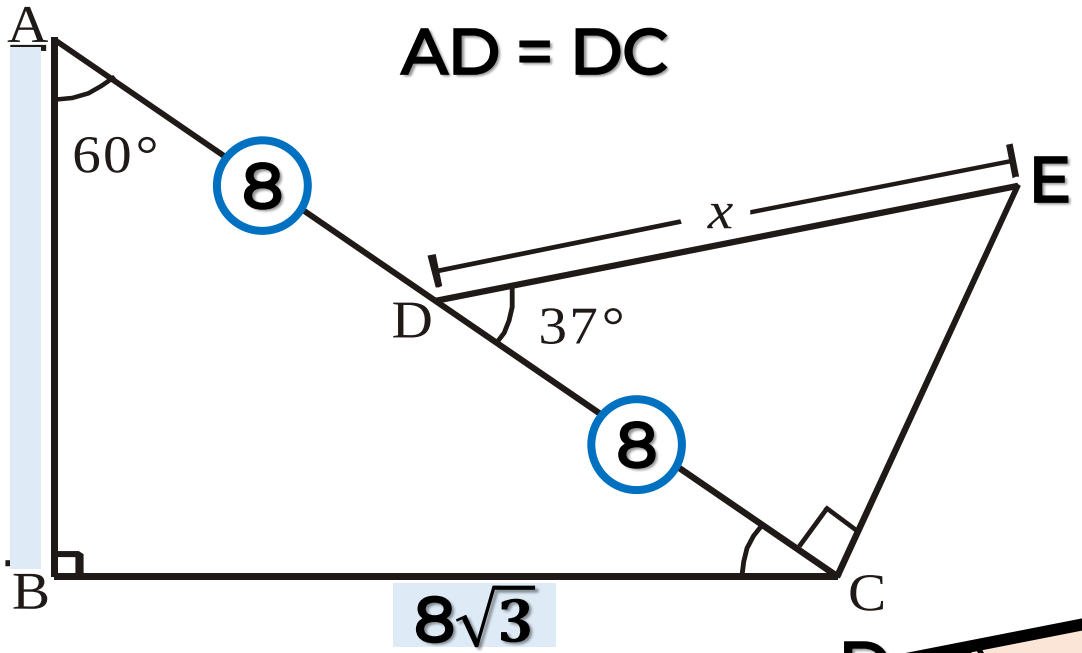
SACO OLIVEROS

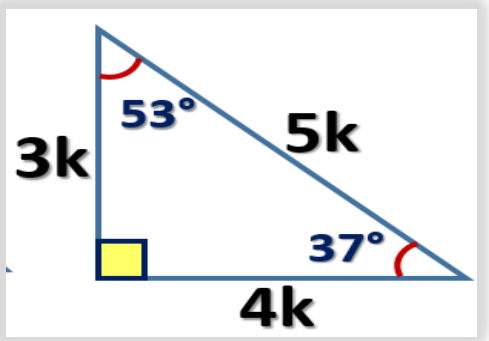
1. En el gráfico, AD = DC, halle el valor de x

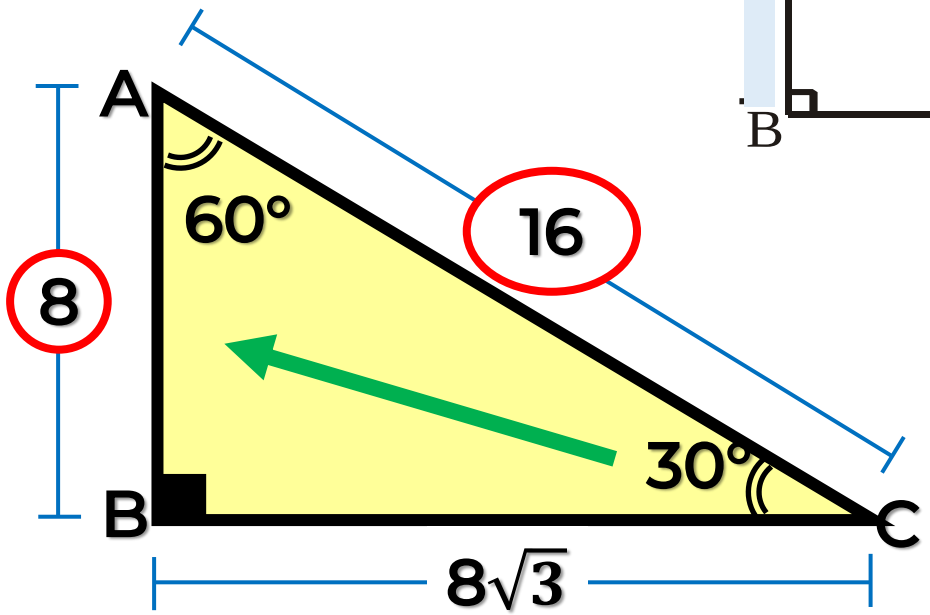
Piden x

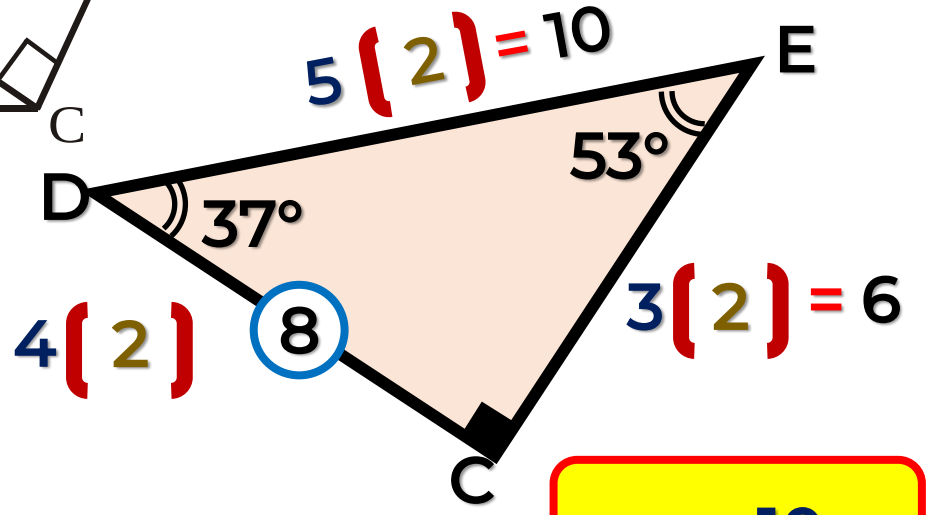
AD = DC







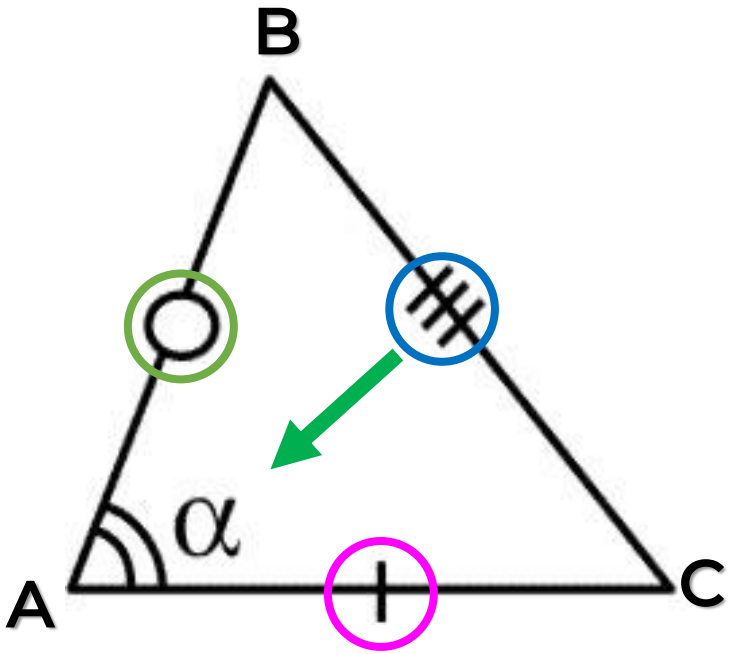


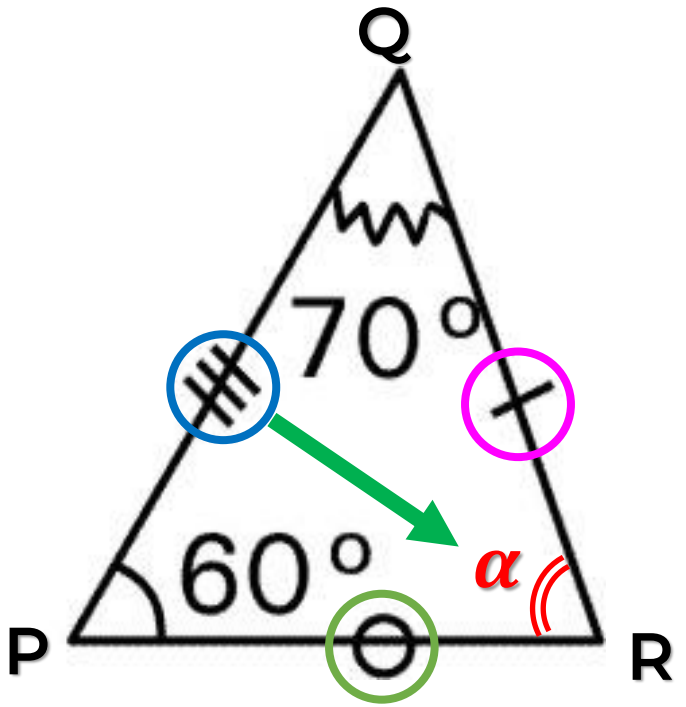


x = 10

2. En el gráfico, Halle el valor de α.

Piden α





$\Delta ABC \cong \Delta RPQ$

[L-L-L]

Δ PQR

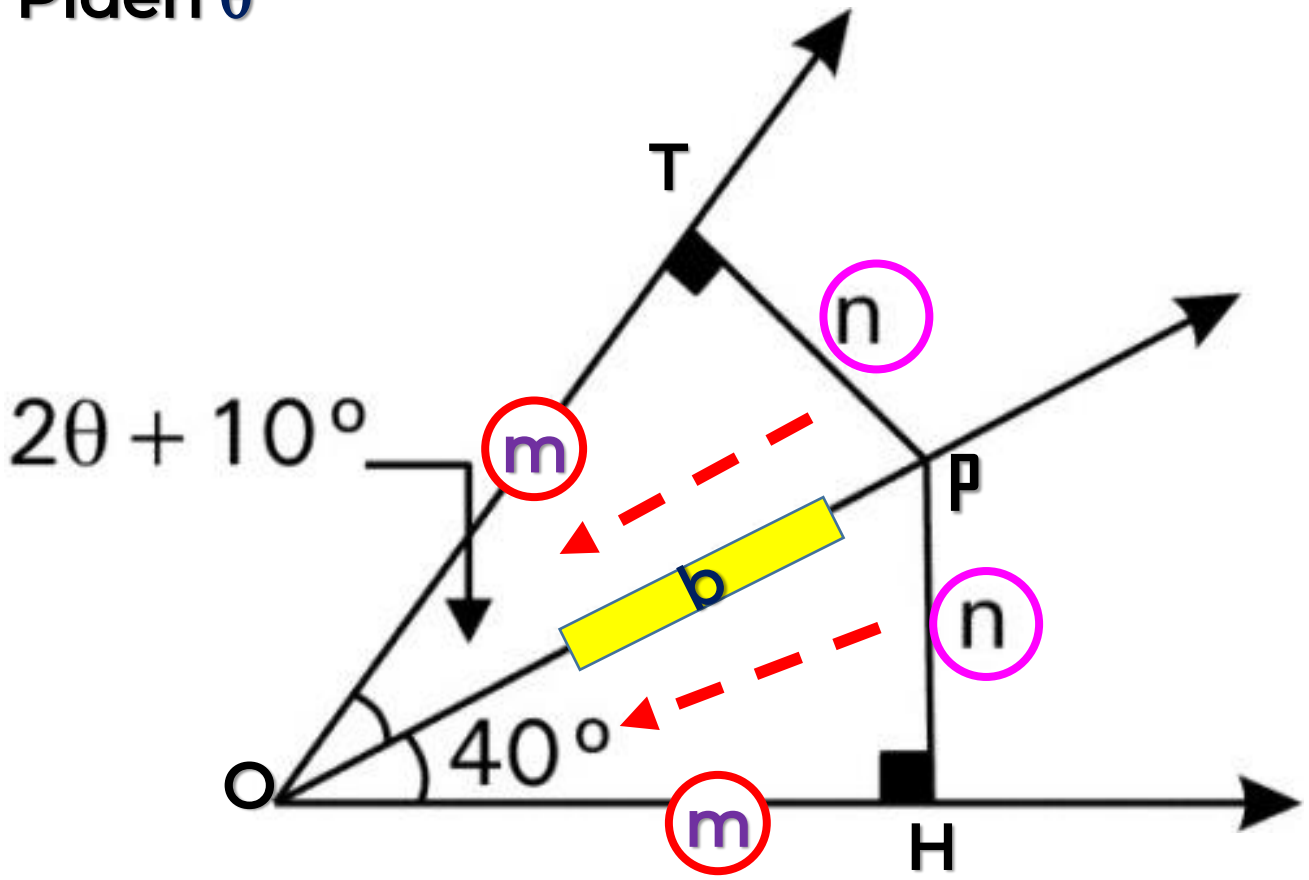
$\propto + 60 + 70° = 180°$

$\propto + 130 = 180°$

$\propto = 50°$

3. En el gráfico , halle el valor de "θ".

Piden θ



$$\Delta POT \cong \Delta POH$$

[L-L-L]

$$m\measuredangle TOP = m\measuredangle HOP$$

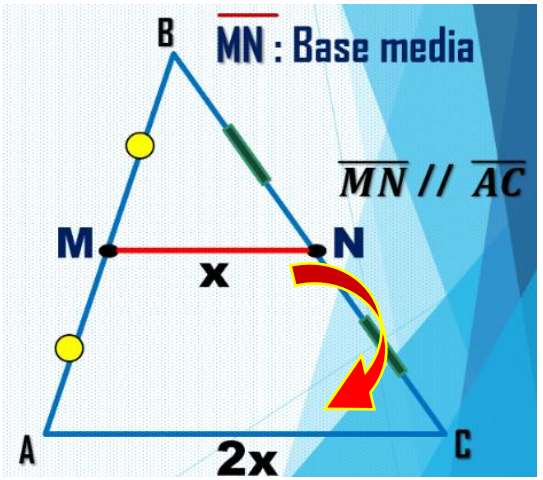
$$2\theta + 10° = 40°$$

$$2\theta = 30°$$

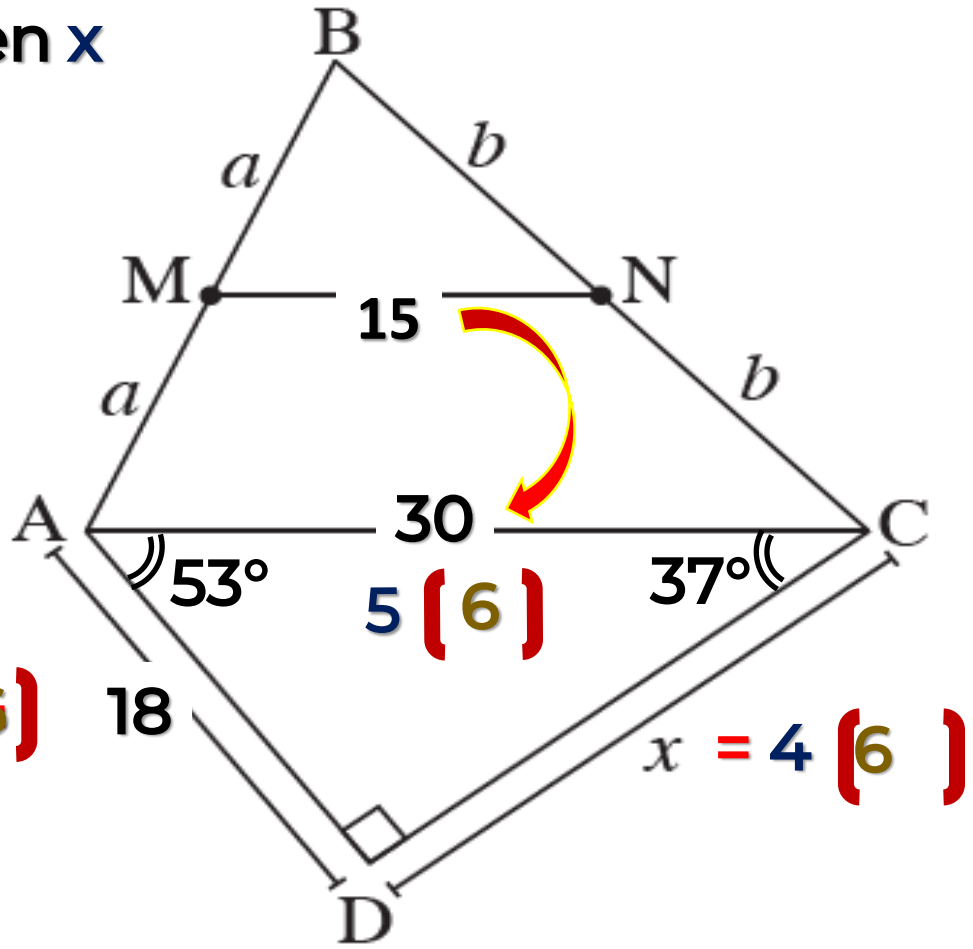
$$\theta = 15°$$

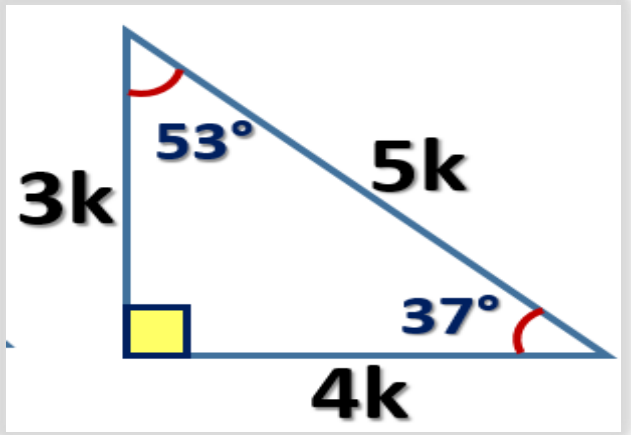
4. En el gráfico, halle el valor de x.

$(Base\ media)$



Piden x





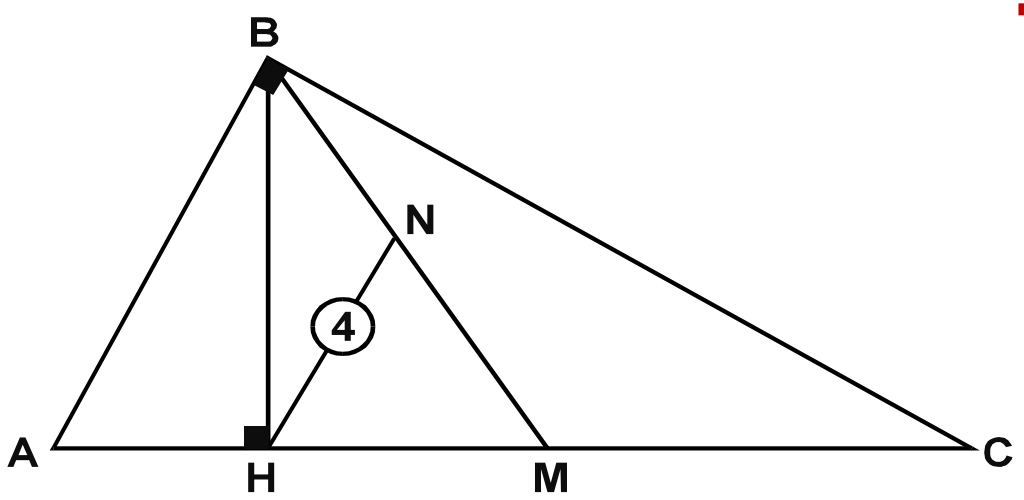
x = 24

5. En el gráfico, AM = MC y BN = NM, Halle el valor de AC.

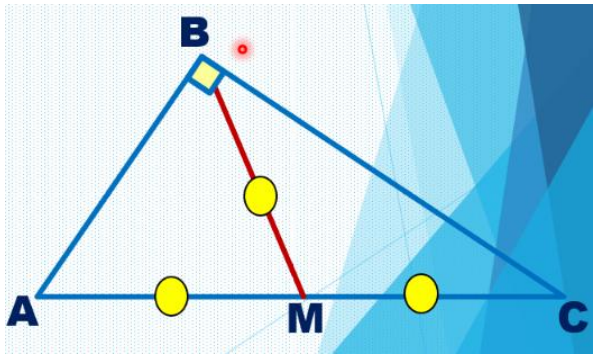
Piden AC

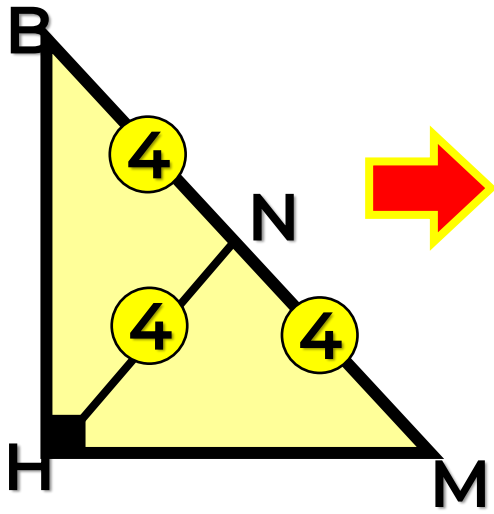
$\triangle BHM$

$\overline{HN}$ Mediana



$\overline{BM}$: Mediana relativa a la hipotenusa.

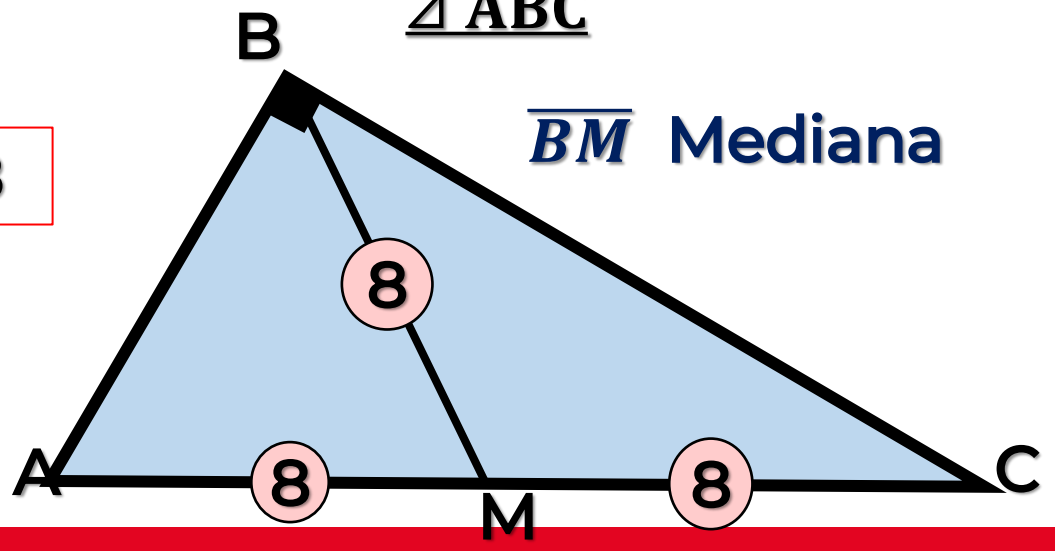




BM = 8

$\triangle ABC$

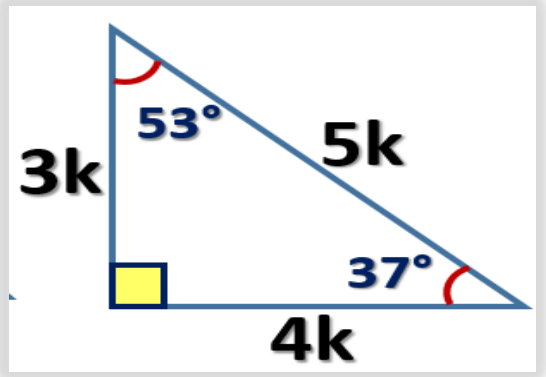
$\overline{BM}$ Mediana

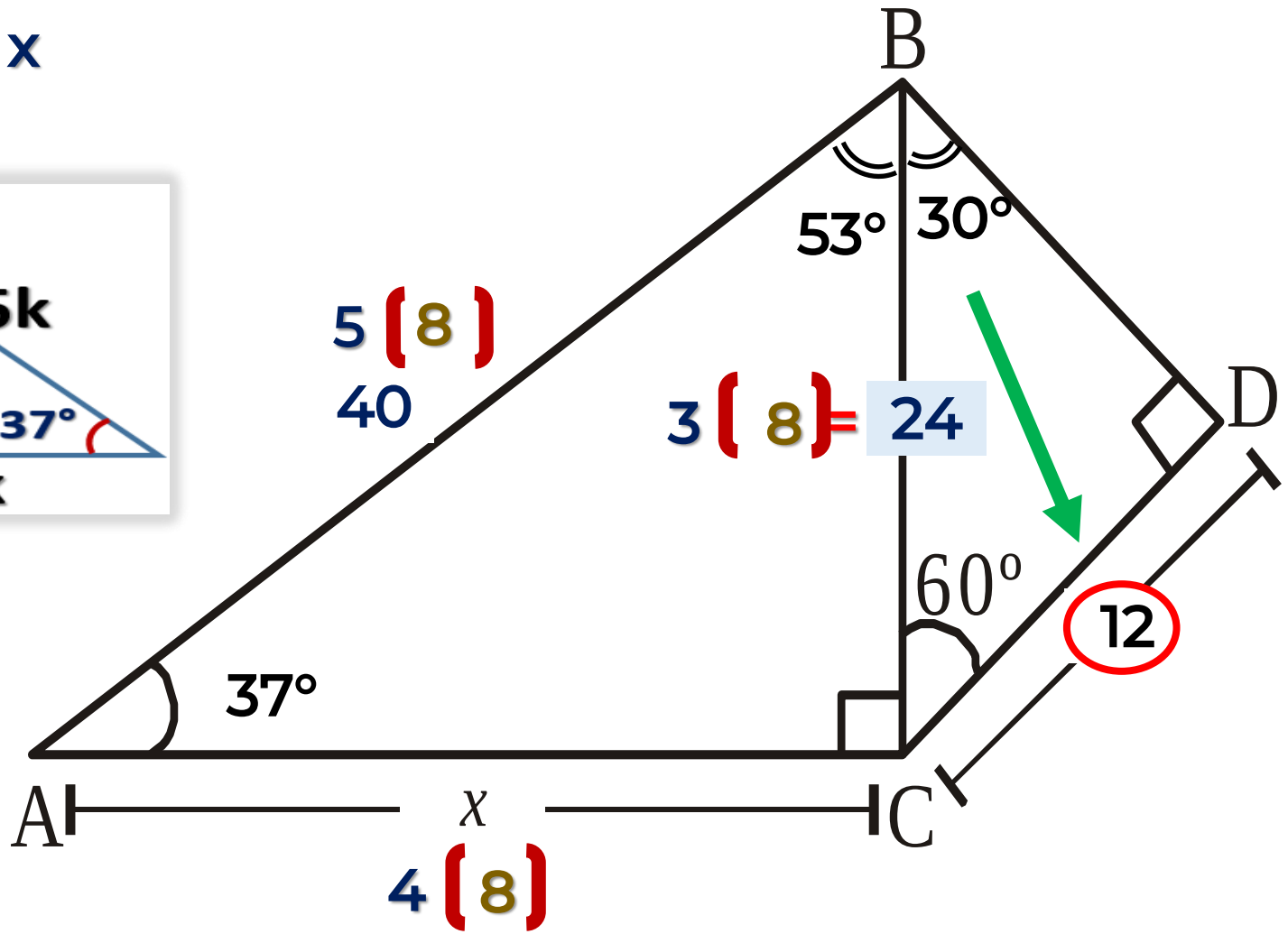


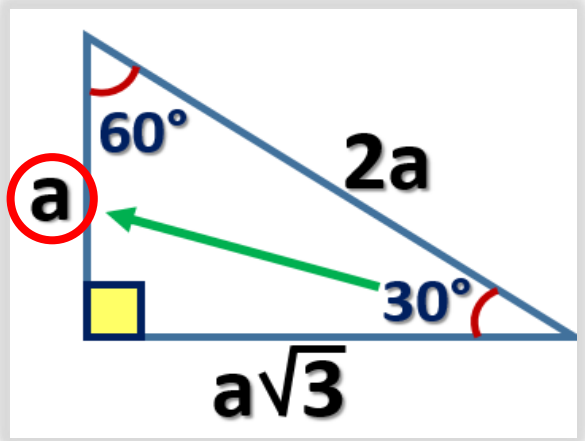
AC = 16

6. En el gráfico, hallar el valor de x.

Piden x



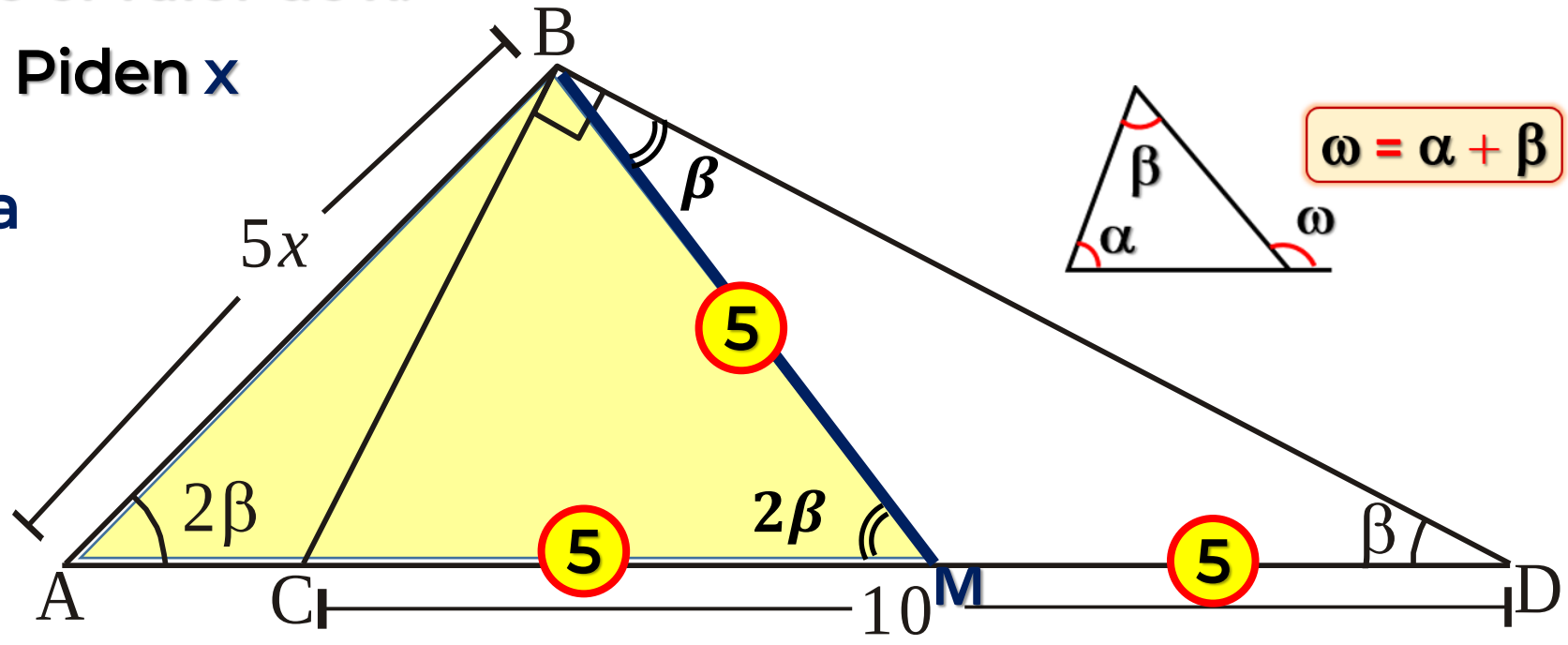




x = 32

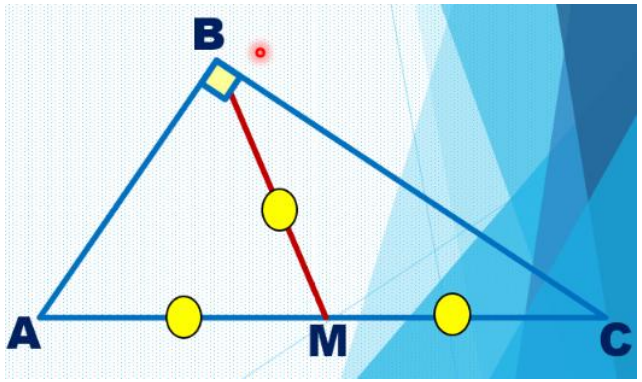
7. En el gráfico, halle el valor de x.

Piden x



$\omega = \alpha + \beta$

$\overline{BM}$: Mediana relativa a la hipotenusa.



Se traza la mediana $\overline{BM}$

Δ BMD (Isósceles)

$m\measuredangle BMC = 2\beta$

Δ ABM (Isósceles)

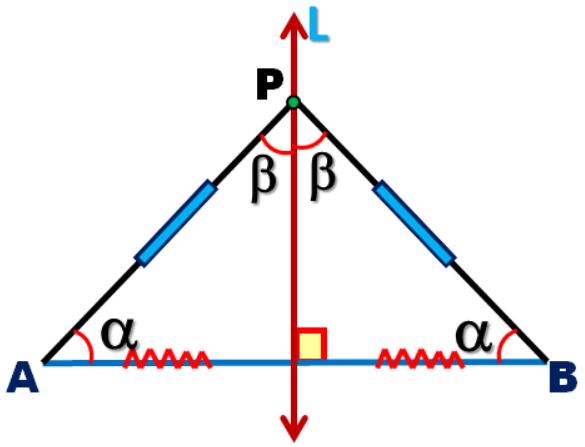
AB = BM

5 x = 5

x = 1

8. En el gráfico, halle el valor de x; la recta $\overleftrightarrow{L}$ es mediatriz del lado $\overline{AC}$.

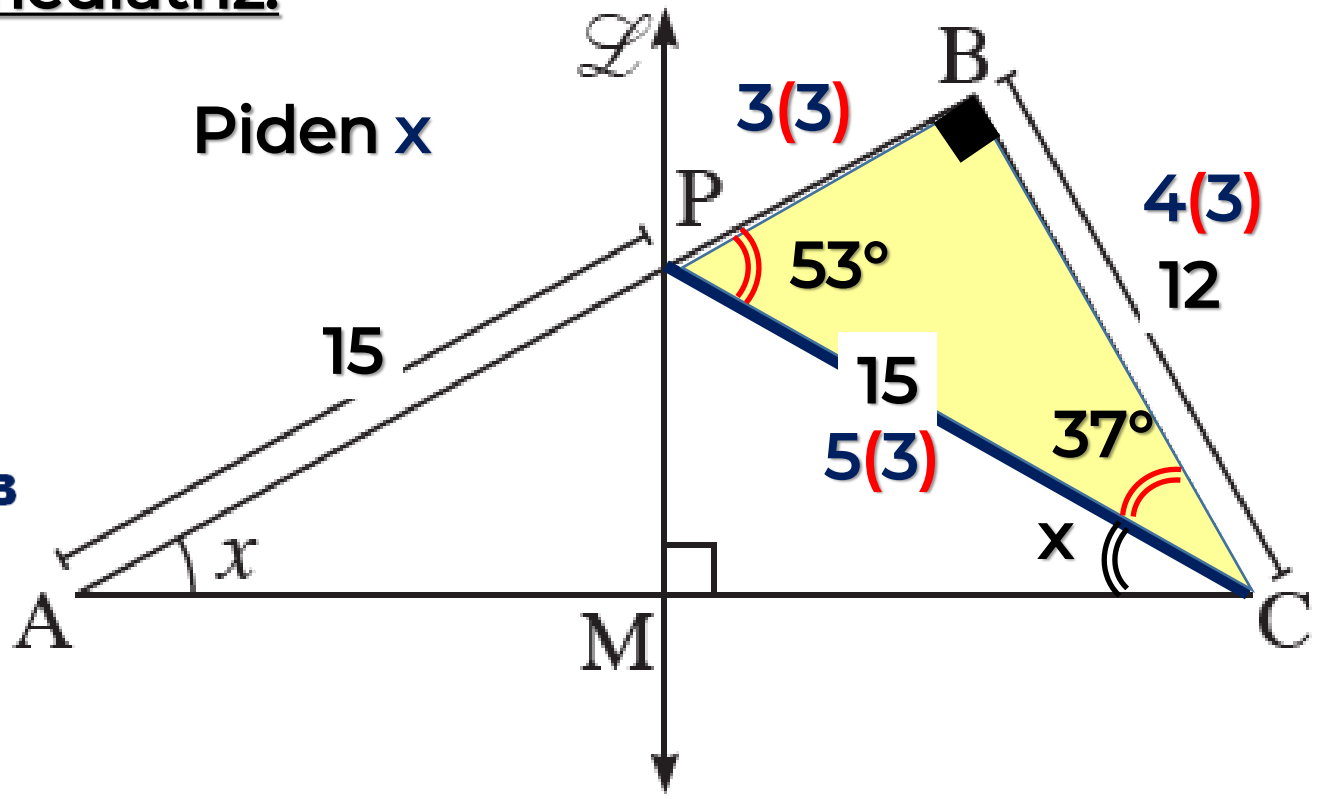
Teorema de la mediatriz.



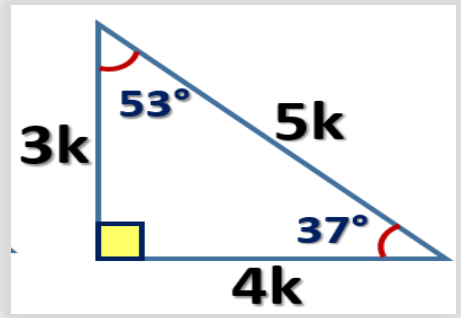
- Se traza $\overline{PC}$

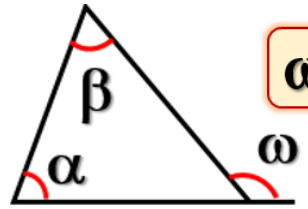
AP = PC = 15

Piden x



$\triangle PBC$





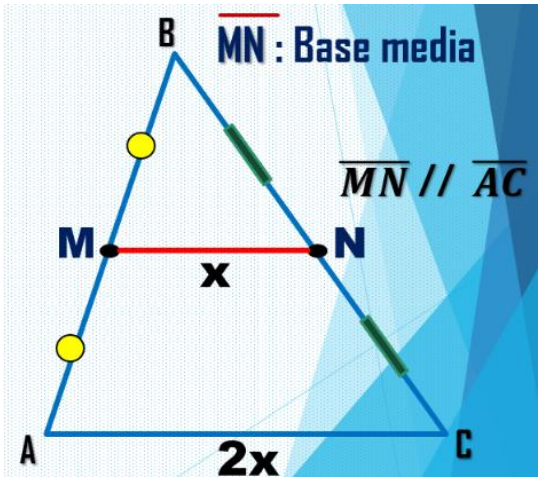
$\omega = \alpha + \beta$

x + x = 53°

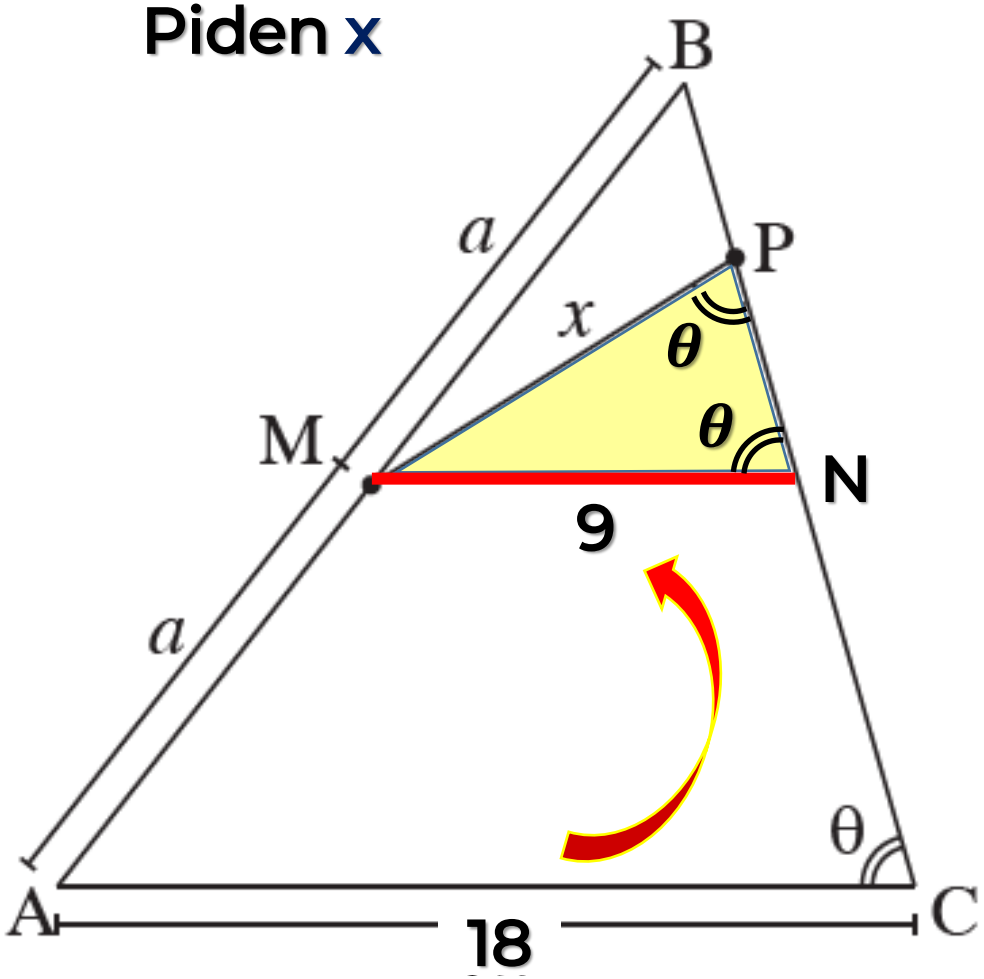
$x = {}^{53^\circ}/_{2}$

9. En el gráfico, halle el valor de x.

(Base media)



Piden x



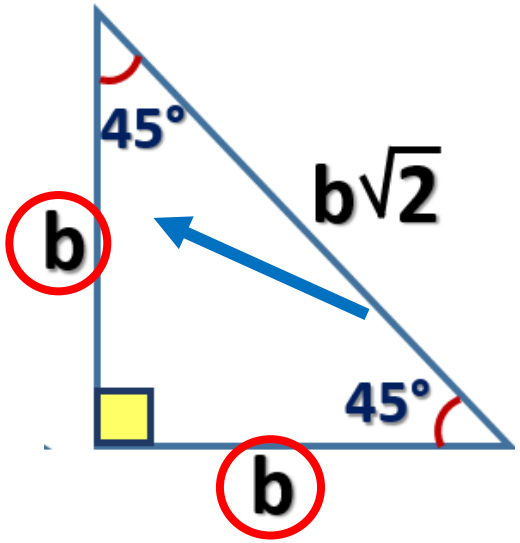
Se traza $\overline{MN} \,//\, \overline{AC}$

Δ NMP (Isósceles)

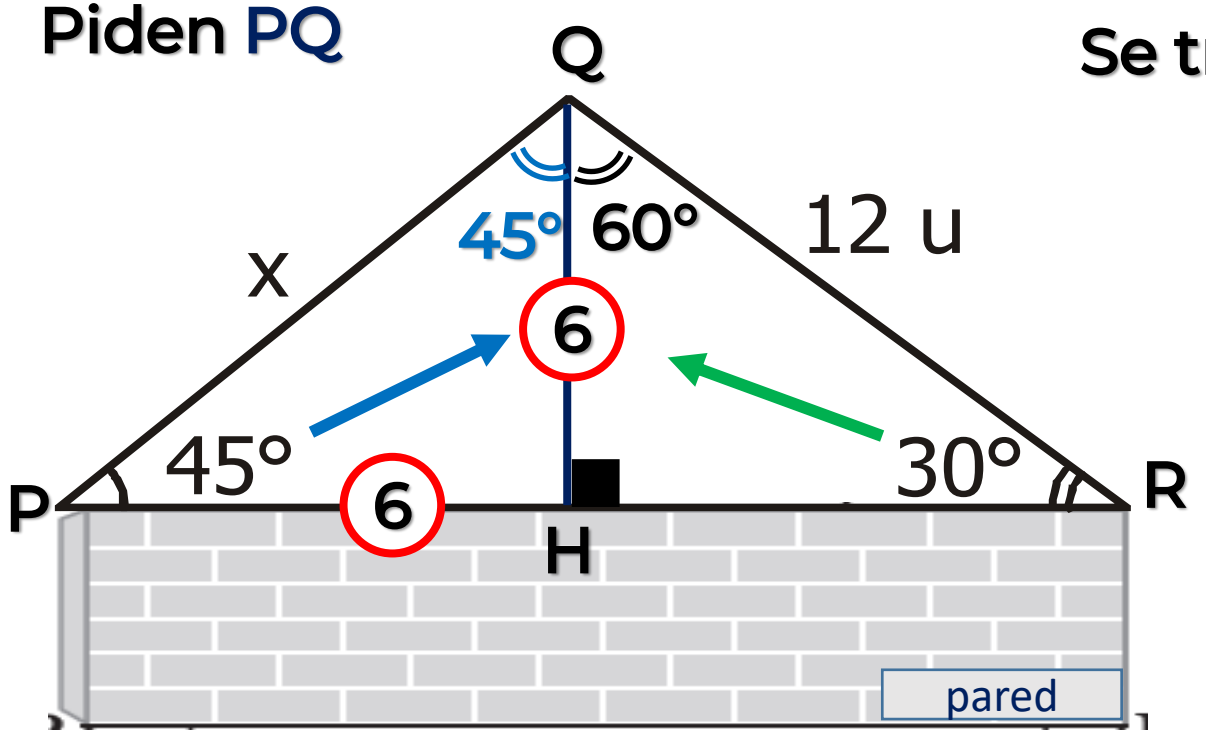
MN = MP

x = 9

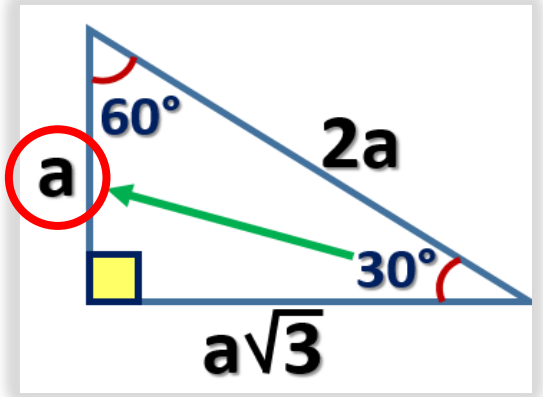
10. Se desea formar un jardín triangular en la parte posterior de una casa cercándolo con las barras $\overline{PQ}$ y $\overline{QR}$. ¿Cuánto mide PQ?



Piden PQ



Se traza $\overline{QH} \perp \overline{PR}$



PQ = 6 √2