#### **VACACIONES DIVERTIÚTILES**

## ASOCIACIÓN EDUCATIVA SACO OLIVEROS

# GEOMETRY



### Chapter 1

5th SECONDARY

Triángulos Congruentes



# GEOMETRY

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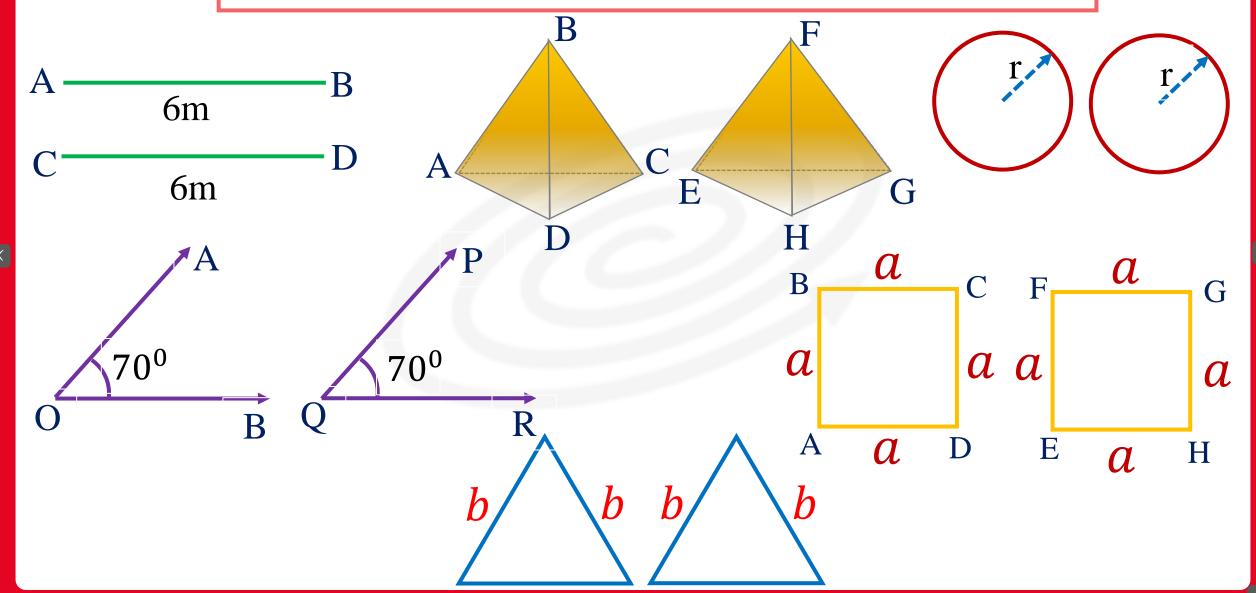
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03. HelicoPractice

04. HelicoWorshop



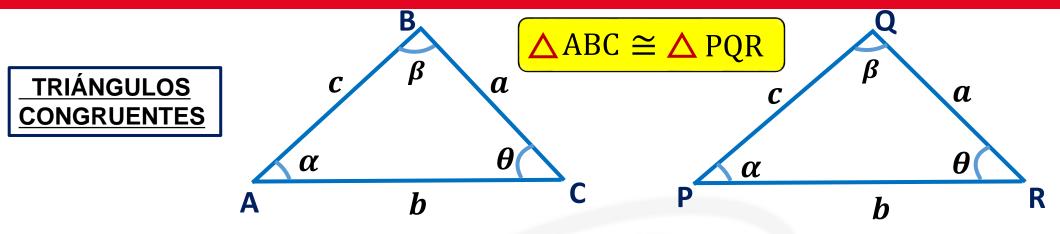
## MOTIVATING STRATEGY



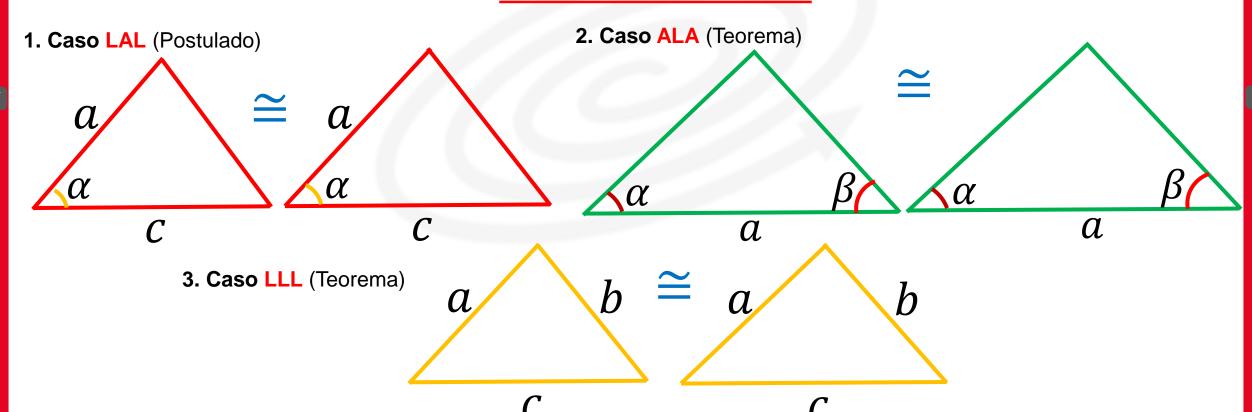
Resumen





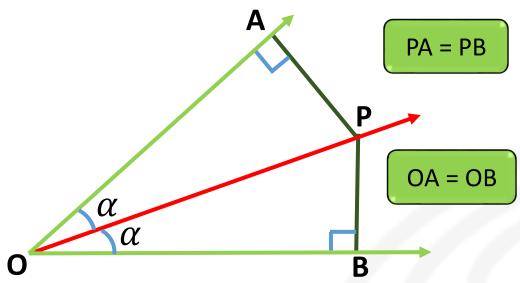


#### **CASOS DE CONGRUENCIA**

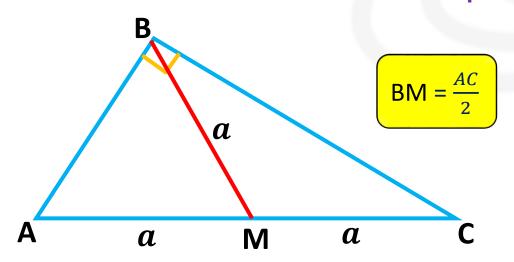


#### Teoremas aplicados en la congruencia

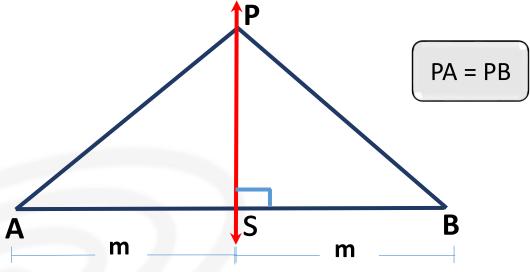
#### 1. Teorema de la bisectriz



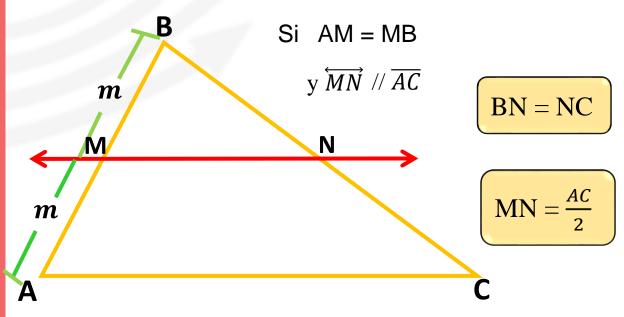
#### 2. Teorema de la mediana relativa a la hipotenusa



#### 3. Teorema de la mediatriz



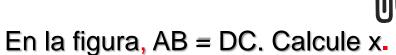
#### 4. Teorema de la base media

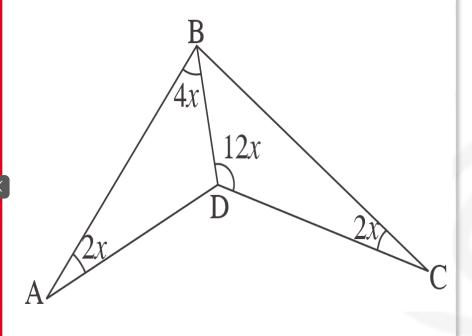


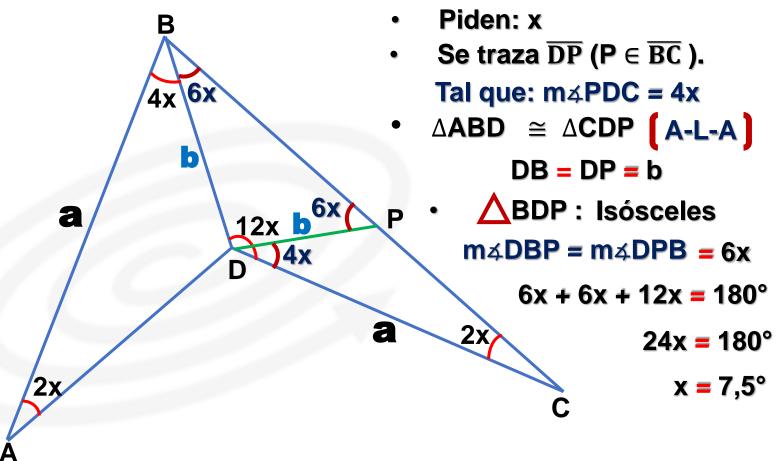
#### Resolución de Problemas









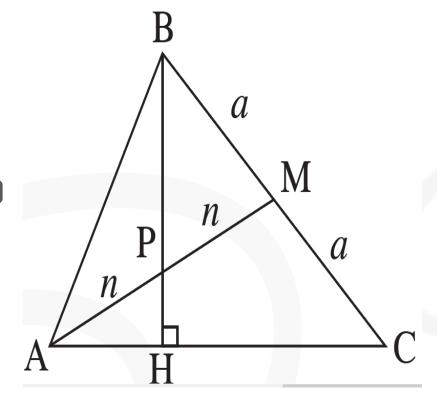


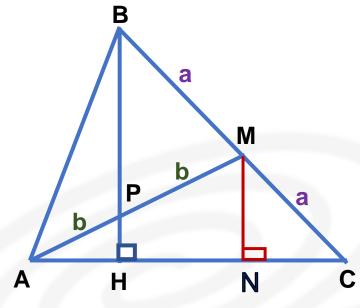
Respuesta

 $x = 7.5^{\circ}$ 



Halle PH si BH = 20 u.





- · Piden: PH
- Se traza  $\overline{MN} \perp \overline{AC}$ .

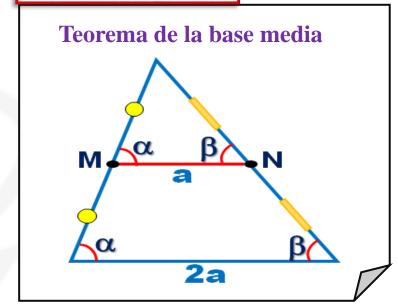
$$MN = \frac{BH}{2} = \frac{20}{2} = 10$$

• ▲ ANM : PH: Base media.

$$PH = \frac{MN}{2} = \frac{10}{2} = 5$$

$$PH = 5$$

#### **RECORDEMOS**



Respuesta

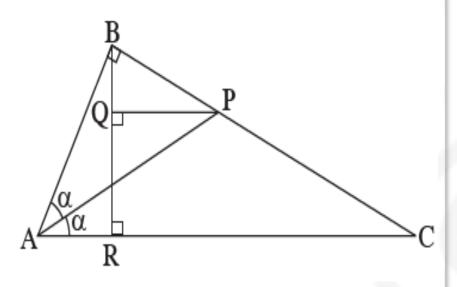
.: PH = 5

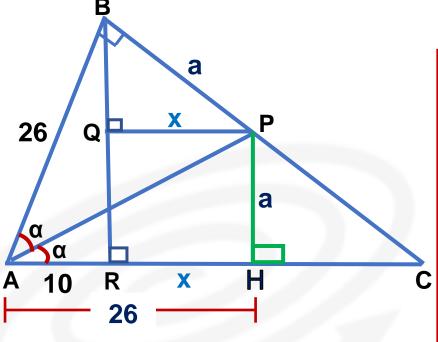
#### Problema 03





En el gráfico, AB=26 y AR=10. Halle PQ.





- Piden: x
- Por teorema de la bisectriz.
- Se traza  $\overline{PH} \perp \overline{AC}$ .

$$PB = PH = a$$

RQPH : Rectángulo

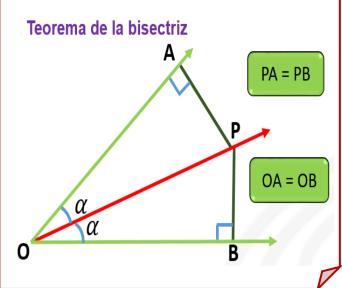
$$QP = RH = x$$

Del gráfico:

$$10 + x = 26$$

#### Resolución

#### RECORDEMOS

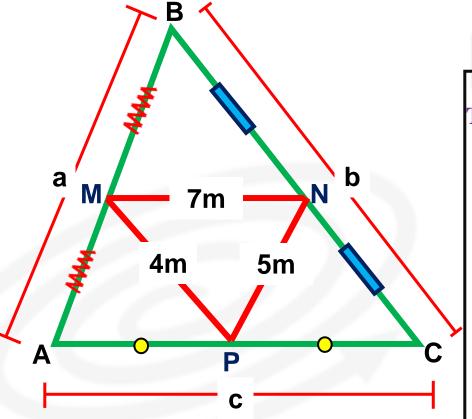


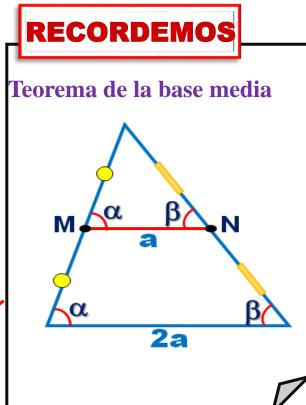
Respuesta

x = 16



Se tiene parque triangular se toma los puntos medios de los lados de dicho parque formándose un triángulo cuyos lados son 4 m, 5 m y 7 m. Calcule el perímetro del parque.





Piden:  $2p_{\land} ABC = a + b + c$ 

Por teorema de base media:

$$a = 2(5) = 10$$

$$b = 2(4) = 8$$

$$c = 2(7) = 14$$

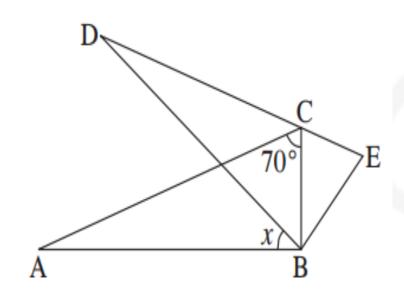
$$2p_{\triangle}$$
ABC =  $10 + 8 + 14 = 32$ 

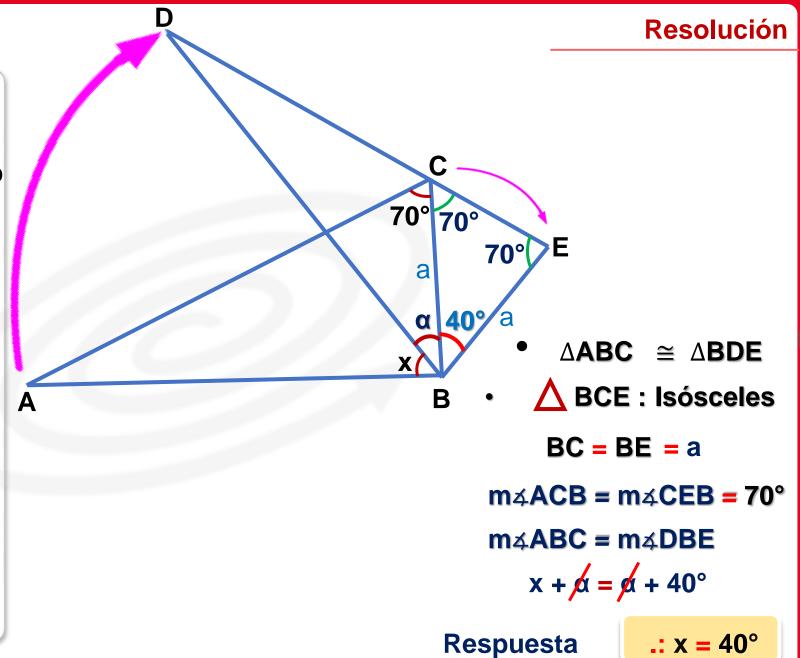
Respuesta

.: 2p ABC = 32m



Se tiene una pieza de rompecabezas ABC, el triángulo DBE resulta del giro de ABC en torno a B. Halle el valor de x.







 $\bigcirc$ 

Problema 06

Problema 07

Problema 08

Problema 09

Problema 10



# HELICO WORSHOP



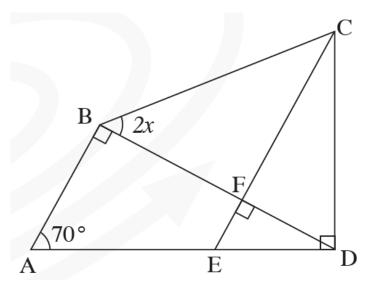
Problema 07



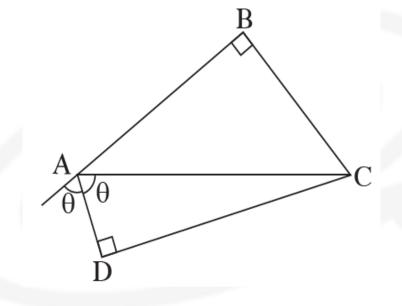
Problema 08



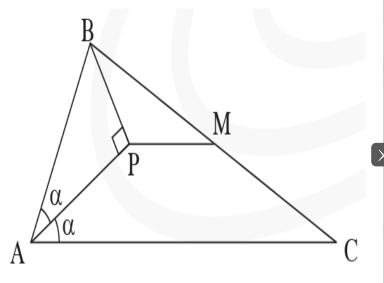
En la figura, AB = ED. Calcule x.



Halle BD si CD = 12 u.



En la figura, AB = 7 u, AC = 19 u y M es punto medio de <del>BC</del>. Halle PM.

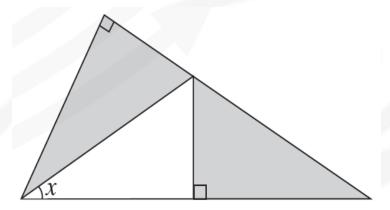




Un jardín que tiene forma de región triangular, donde sus bordes o lados tienen longitudes iguales a 14 m, 16 m y 10 m, se divide en cuatro partes, uniendo los puntos medios de sus lados. Calcule el perímetro de la parte central.

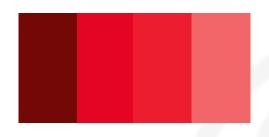


Si las regiones sombreadas son congruentes, halle el valor de *x*.





# **FORMATO**



PALETA DE COLORES.

FUENTE DE TEXTO ES ARIAL