

GEOMETRÍA Tomo 5



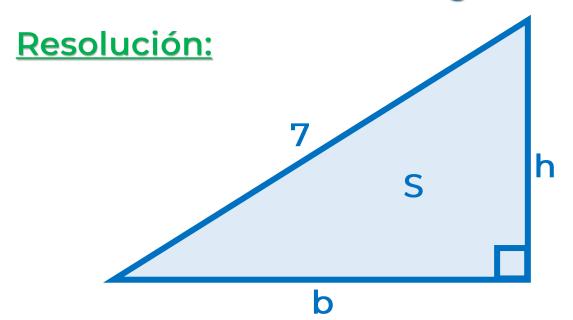


<u>RETROALIMENTACIÓN</u>





1. Calcule el área de la región triangular mostrada, si b + h = 9.



• T. Pitágoras

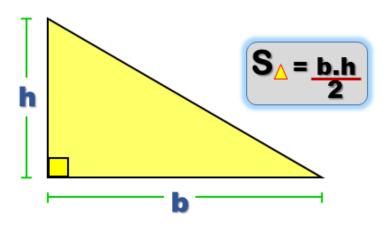
$$b^{2} + h^{2} =$$
 $b^{2} 7^{2}h^{2} =$
49

· Binomio al cuadrado

$$(b + h)^2 = b^2 + h^2 + 2b.h$$

 $(9)^2 = 49 + 2b.h$
 $32 = 2b.h$
 $16 = b.h$

Nos piden S.

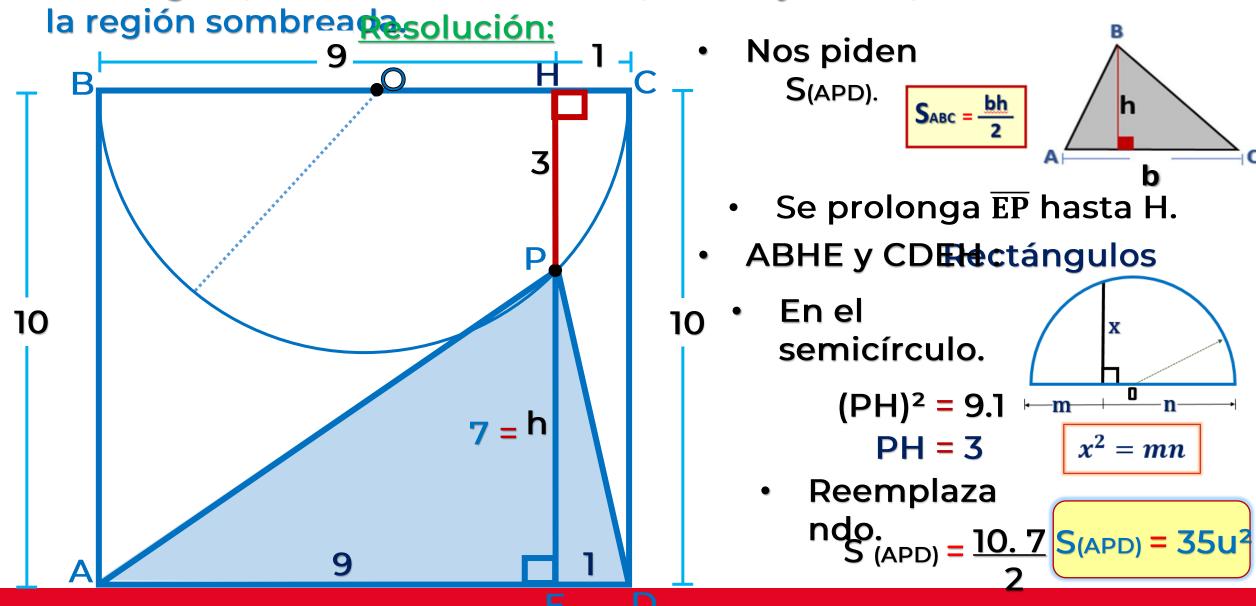


Reemplazando

$$S = \frac{16}{2}$$

$$S = 8 u^2$$

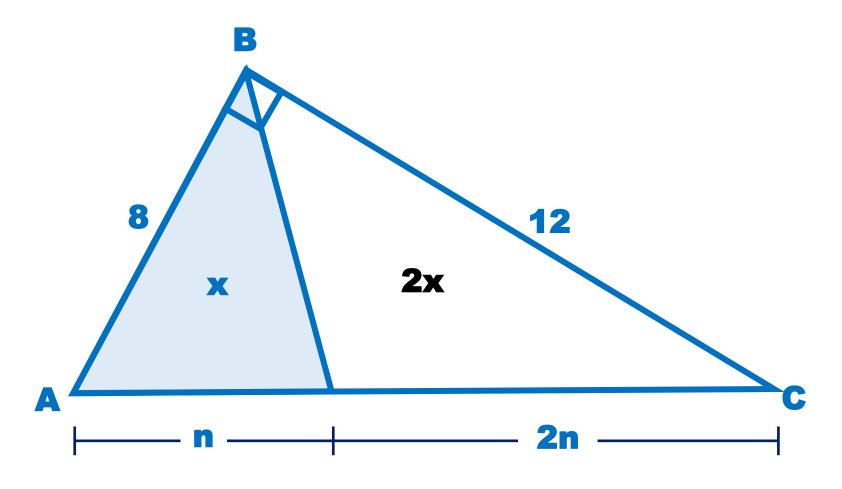
2. En la figura, ABCD es un cuadrado, AE = 9 y DE = 1, calcule el área de



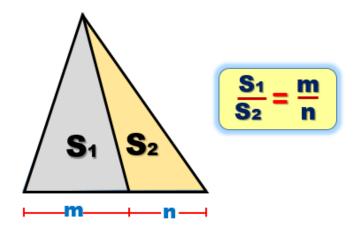


3. En la figura, calcule el área x.

Resolución:



Nos piden x.

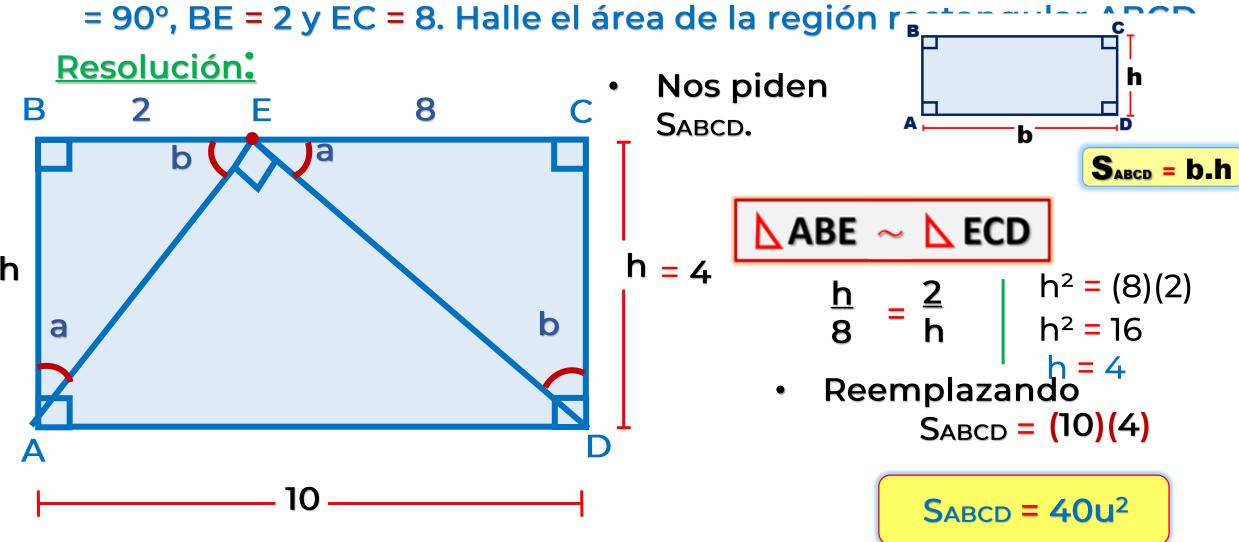


Del gráfico.

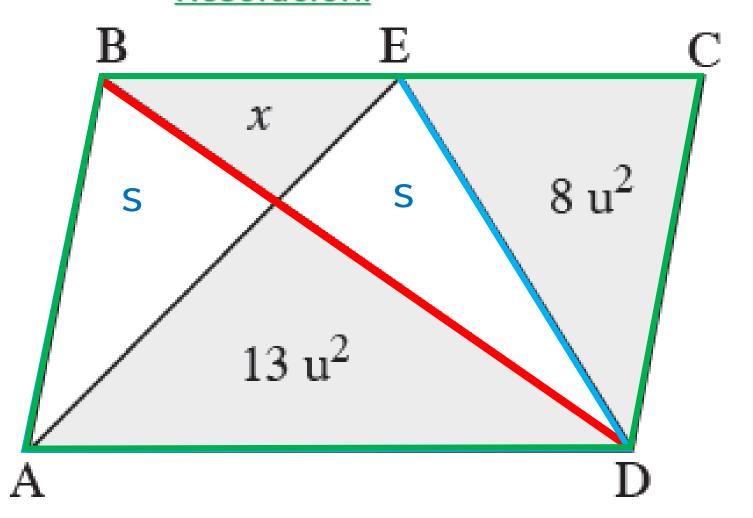
$$S_{(ABC)} = \frac{12.8}{2}$$
 $3x = 48$



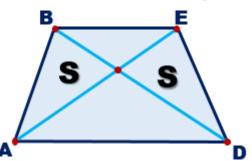
4. En un rectángulo ABCD, en BC se ubica el punto E, tal que m<AED



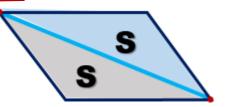
5. En el siguiente romboide ABCD, calcule x. Resolución:



*ABED; rapecio



_ABCDRomboide



S(ABD) S(BCD)

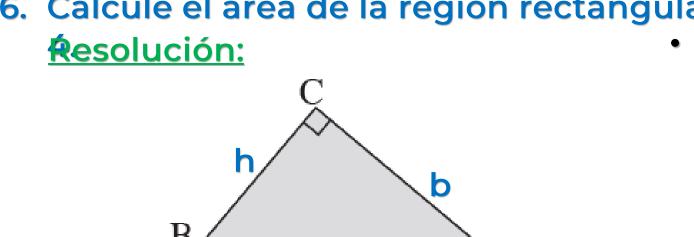
$$5 + 13 = x + 5 + 8$$

 $13 = x + 8$

6

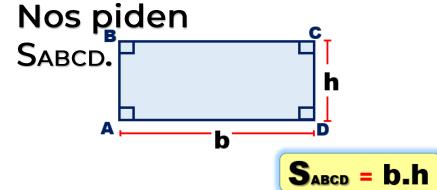


6. Calcule el área de la región rectangular ABCD si PB = 6 y DQ =



b

b



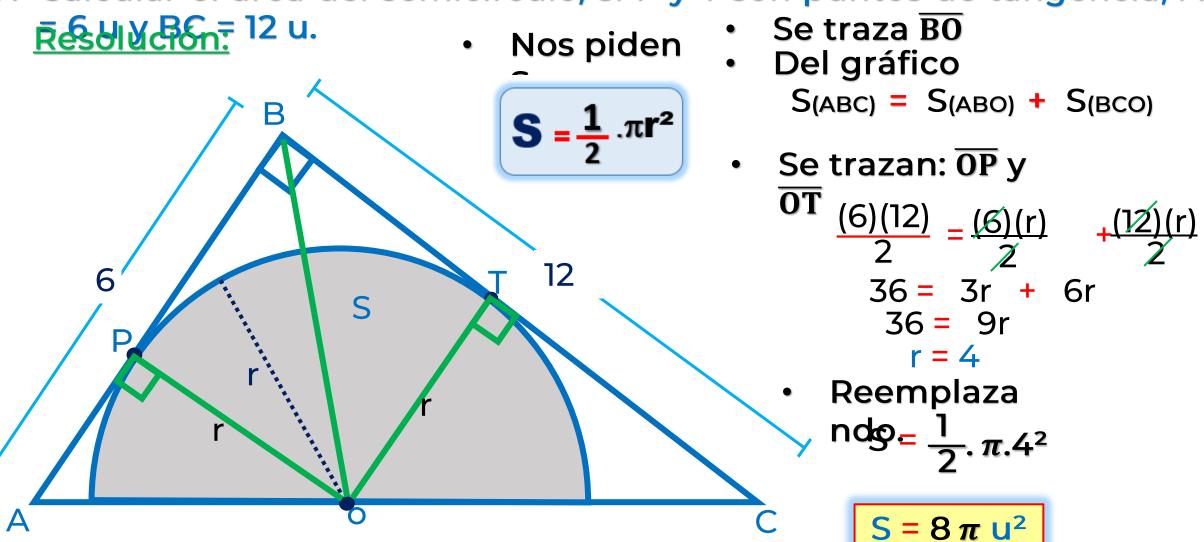


$$\frac{b}{4} = \frac{6}{h}$$
 b.h = 24

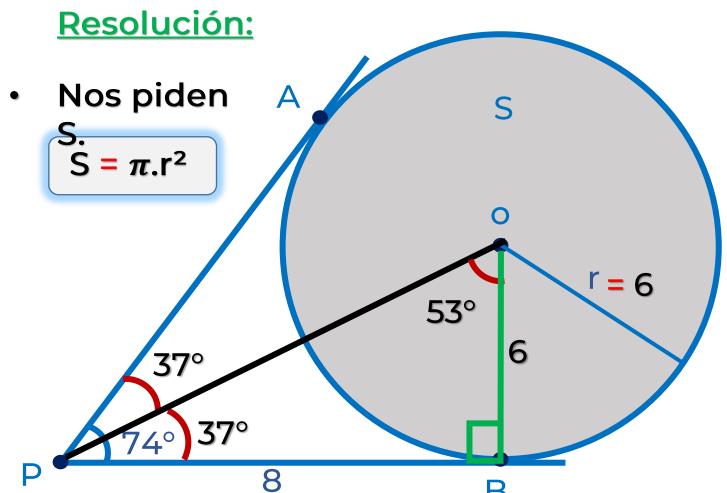
Reemplazando $S_{ABCD} = b.h$



7. Calcular el área del semicírculo, si P y T son puntos de tangencia, AB

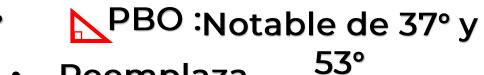


8. Calcule el área del círculo, si A y B son puntos de tange







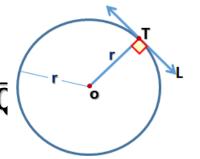


• Reemplaza ndo $S = \pi.6^2$

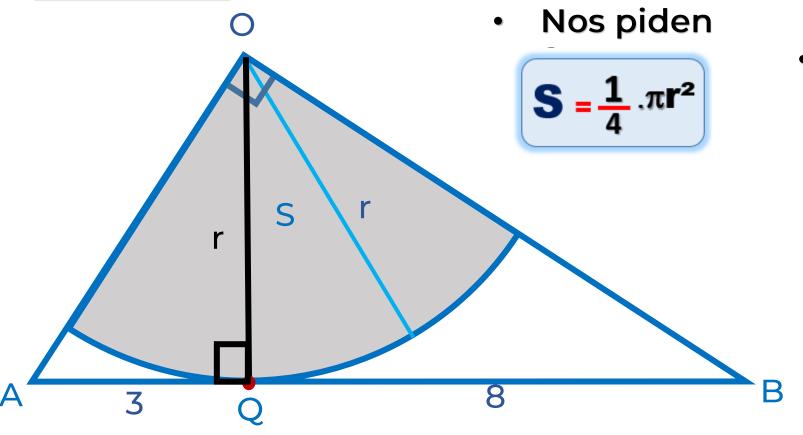
$$S = 36 \pi u^2$$

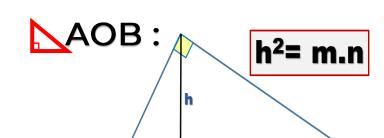
HELICO | PRACTICE

9. En el gráfico, calcule el área de la región sombreada. Se traza $\overline{0\zeta}$



Resolución:





$$r^2 = 3.8$$

$$r^2 = 24$$

Reemplaza

$$\frac{1}{S} = \frac{1}{4} \cdot \pi.24$$

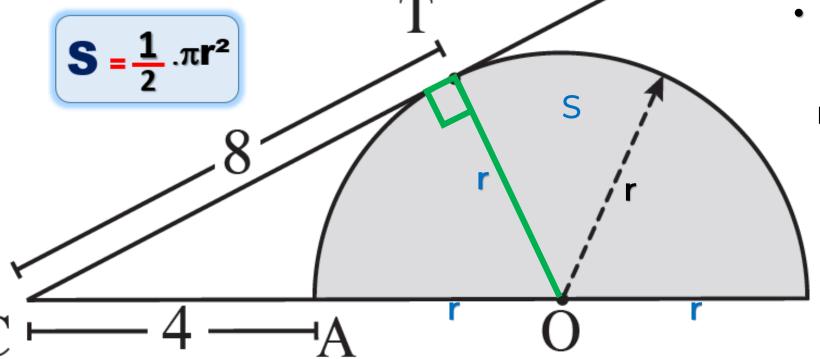
$$S = 6 \pi u^2$$



10. Calcule el área del semicírculo si T es punto de tange

Resolución:

Nos piden



Se traza OT.

CTOT: Pitágoras

$$(r + 4)^2 = r^2 + 8^2$$

 $r^2 + 8r + 16 = r^2 + 64$
 $8r = 48$
 $r = 6$

Reemplaza $\frac{1}{2}.\pi.6^2$

$$S = 18 \pi u^2$$