GEOMETRÍA

Capítulo 9

3rd SECONDARY

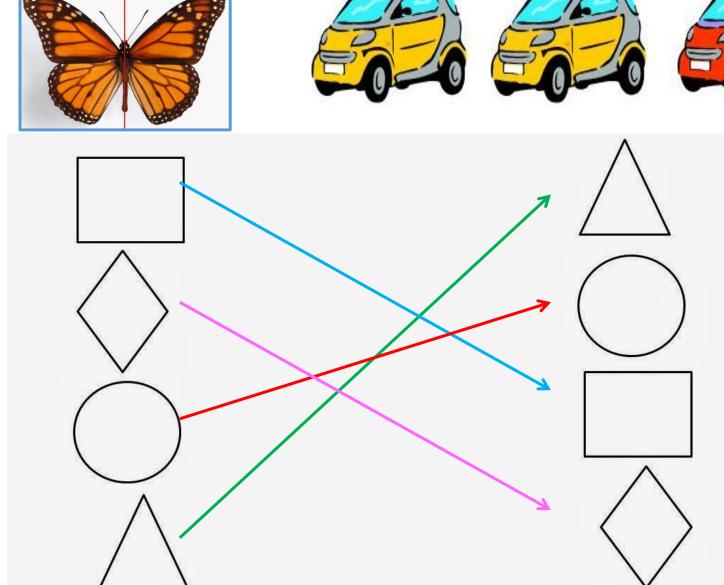
APLICACIONES DE LA CONGRUENCIA





MOTIVATING | STRATEGY













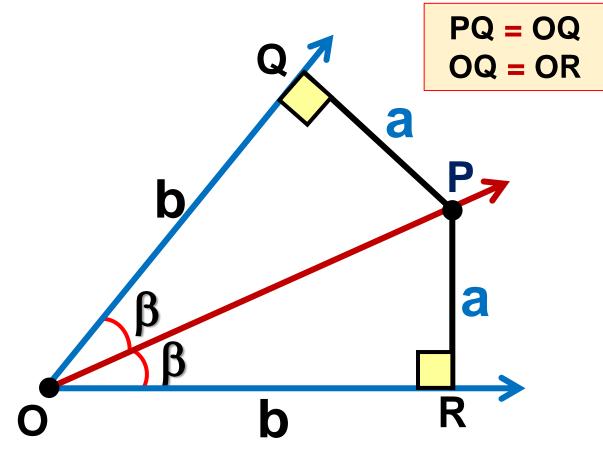




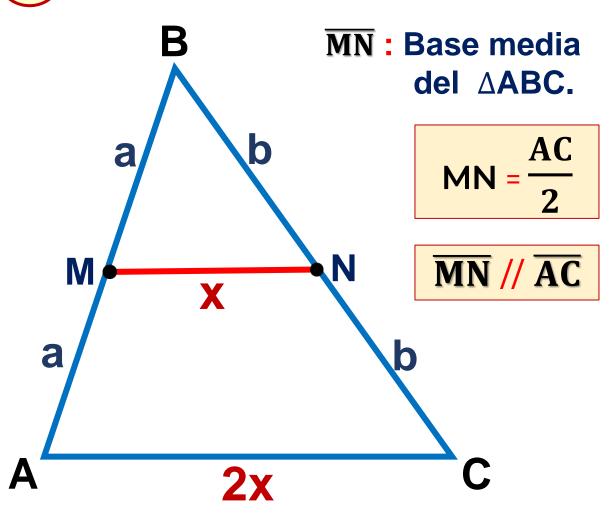
Aplicaciones de la congruencia



TEOREMA DE LA BISECTRIZ



TEOREMA DE LA BASE MEDIA

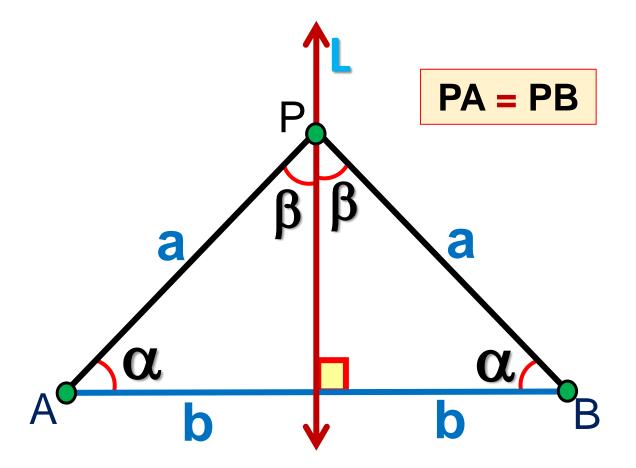






TEOREMA DE LA MEDIATRIZ

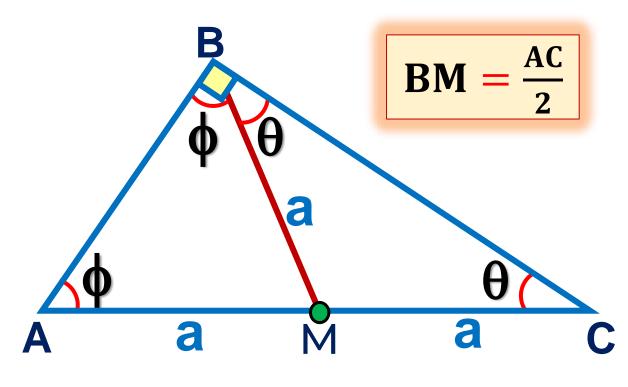
L: Mediatriz del AB





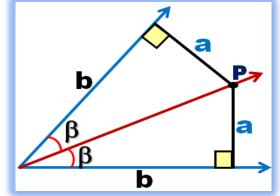
TEOREMA DE LA MEDIANA RELATIVA A LA HIPOTENUSA

BM: Mediana relativa a la hipotenusa.



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

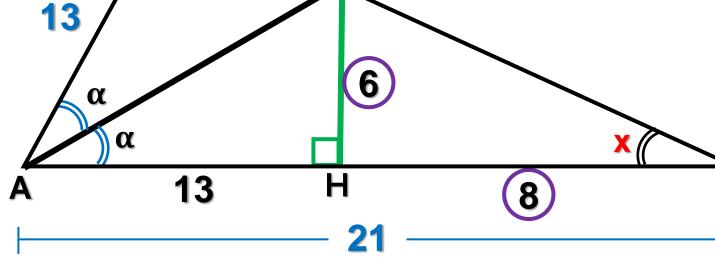


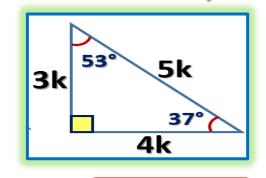




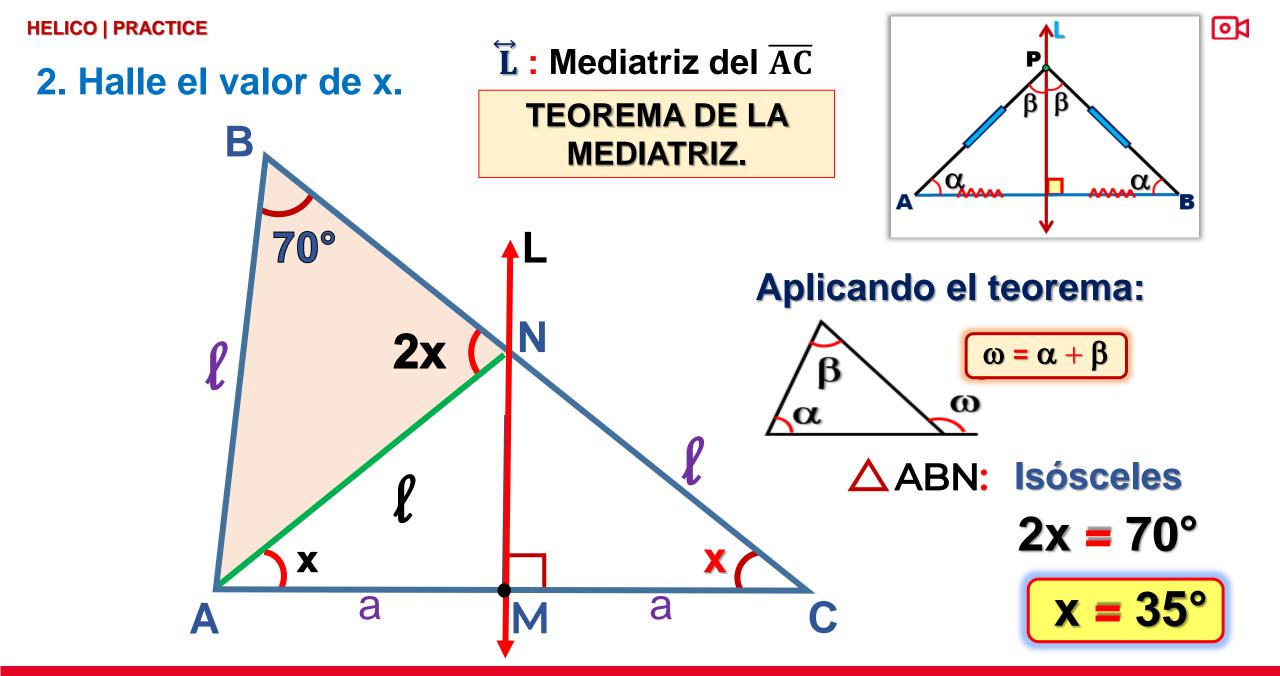
BA = AH = 13

. PHC: Notable (37°; 53°)





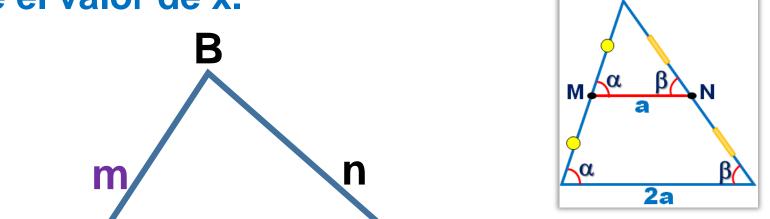
$$x = 37^{\circ}$$

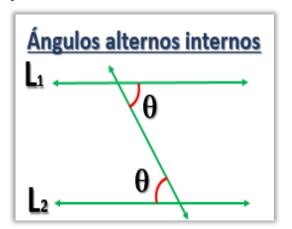


Trazamos MN (Base media)









△MNT: Isósceles

Teorema: Suma de las medidas de los ángulos internos

$$x + 67^{\circ} + 67^{\circ} = 180^{\circ}$$

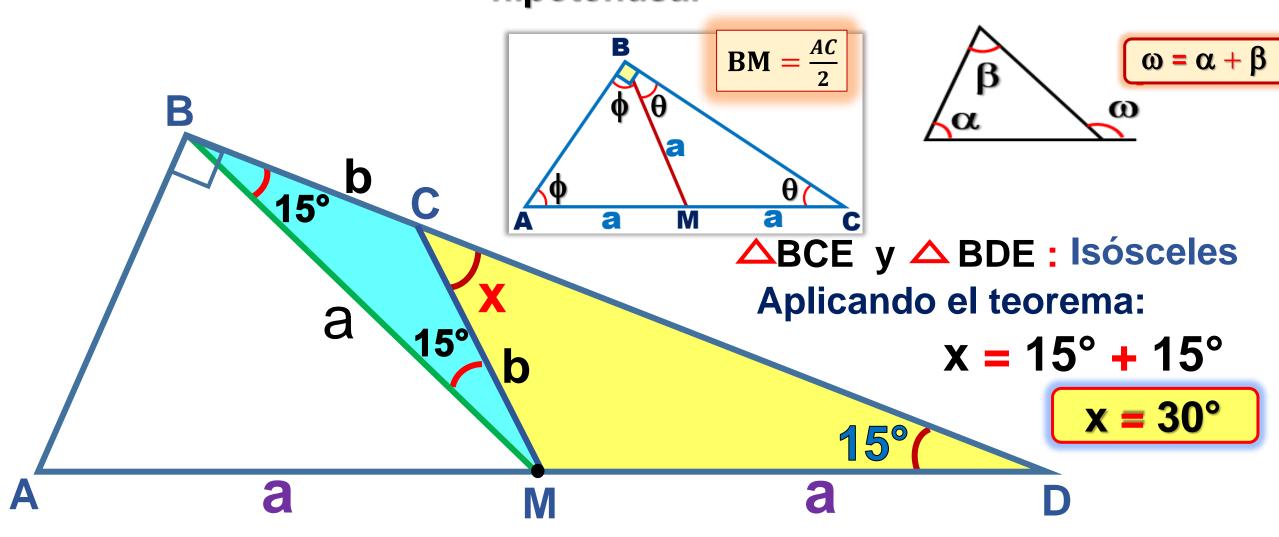
$$x + 134^{\circ} = 180^{\circ}$$

$$x = 46^{\circ}$$

01

4. Halle el valor de x.

BM: Mediana relativa a la hipotenusa.

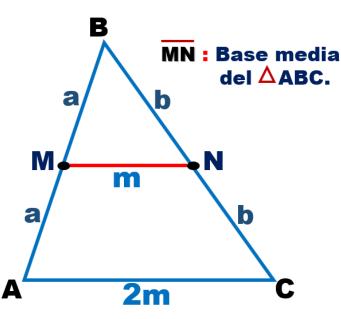




 Ubicamos el punto medio P del AC.



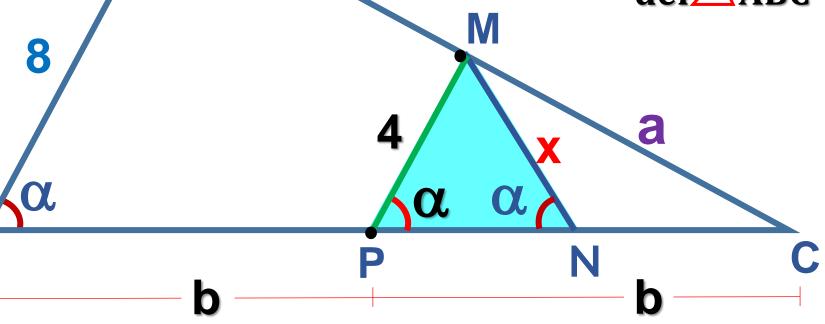
MP: Base media del△ABC





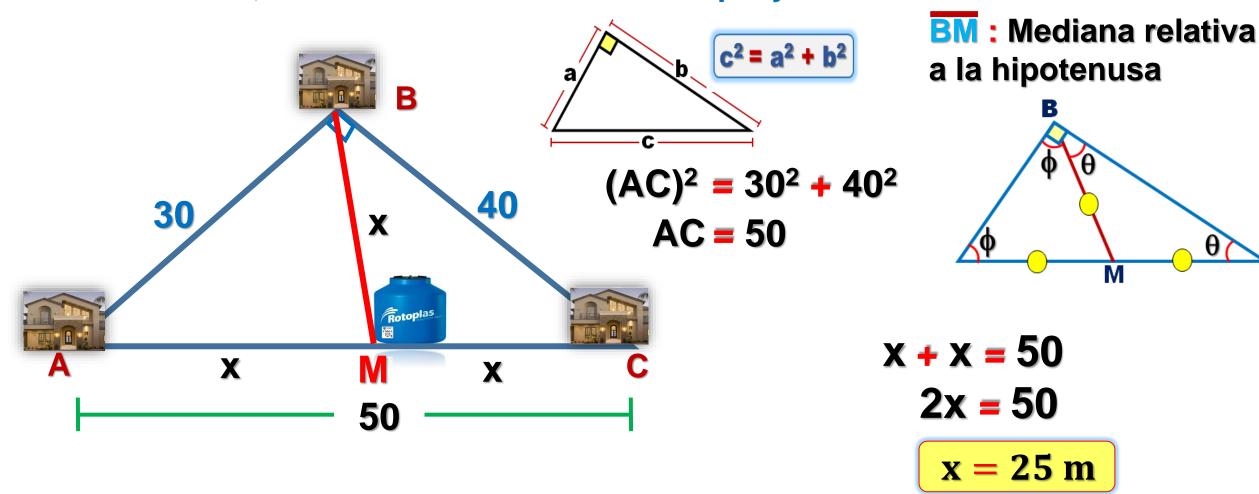
▲ PMN: Isósceles

$$\mathbf{x} = \mathbf{4}$$



HELICO | PRACTICE

6. Se instala un tanque con agua para abastecer las casas A, B y C tal que equidiste de dichas casas. Si la casa A está a 30 m de la casa B y B a 40 m de la casa C, halle la distancia entre el tanque y la casa B.





7.Halle el valor de x, L1 // L2.

