

D M A    • Asunto:

**FINCOMERCIO**  
Cooperativa de Ahorro y Crédito

①

$30^\circ + 45^\circ = 75^\circ$   
 $180^\circ - 75^\circ = 105^\circ$

$$\frac{x}{\sin(60^\circ)} = \frac{h}{\sin(30^\circ)}$$

$$x = \frac{h \cdot \sin(60^\circ)}{\sin(30^\circ)}$$

$$x = 1.73h$$

$$\frac{200 - x}{\sin(45^\circ)}$$

$$200 - x = \frac{h \cdot \sin(45^\circ)}{\sin(45^\circ)}$$

$$x = 200 - h$$

$$200 - h = 1.73h$$

$$200 = 1.73h + h$$

$$200 = 2.73h$$

$$h = \frac{200}{2.73}$$

$$h = 73.26$$

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$23 \pm 8 = 15$   
 $180 - 15 = 165$

$$\frac{23}{\sin(\theta)} = \frac{8 \text{ cm}}{\sin(15^\circ)}$$

$$\theta = \arcsin\left(\frac{23 \cdot \sin(15^\circ)}{8}\right)$$

$$\theta = 48^\circ$$

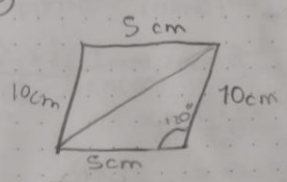
$$\frac{c}{\sin(117^\circ)} = \frac{8 \text{ cm}}{\sin(15^\circ)}$$

$$c = \frac{8 \times \sin(117^\circ)}{\sin(15^\circ)}$$

$$c = 27.54$$

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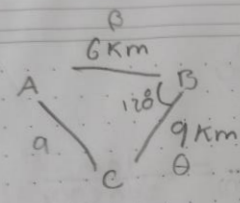


$= 5^2 + 10^2 - 2(5)(10) \cos 120$   
 $= 25 + 100 - 100 \cos (-0.5)$   
 $= 125 - (-50)$   
 $= \sqrt{175}$   
 $= 13.22$

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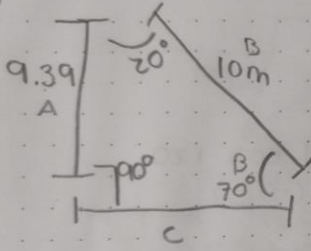
(4)



$AC^2 = 6^2 + 9^2 - 2(6)(9) \cos 120$   
 $AC = 36 + 81 - 108 \cos (-0.5)$   
 $AC = 117 - (-54)$   
 $AC = \sqrt{171}$   
 $AC = 13.07$

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⑤



$$90 + 20 = 110$$

$$180 - 110 = 70$$

$$\frac{a}{\text{sen}(70)} = \frac{10\text{m}}{\text{sen}(90)}$$

$$a = \frac{10 \cdot \text{sen}(70)}{\text{sen}(90)}$$

$$a = 9.39\text{m}$$