

# EXAMEN

$$\alpha = 180 - 30 - 90 = 60^\circ$$

$$\beta = 180 - 45 - 90 = 45^\circ$$

$$\sin(60^\circ) = h / \sin(30^\circ) = 173 \text{ km}$$

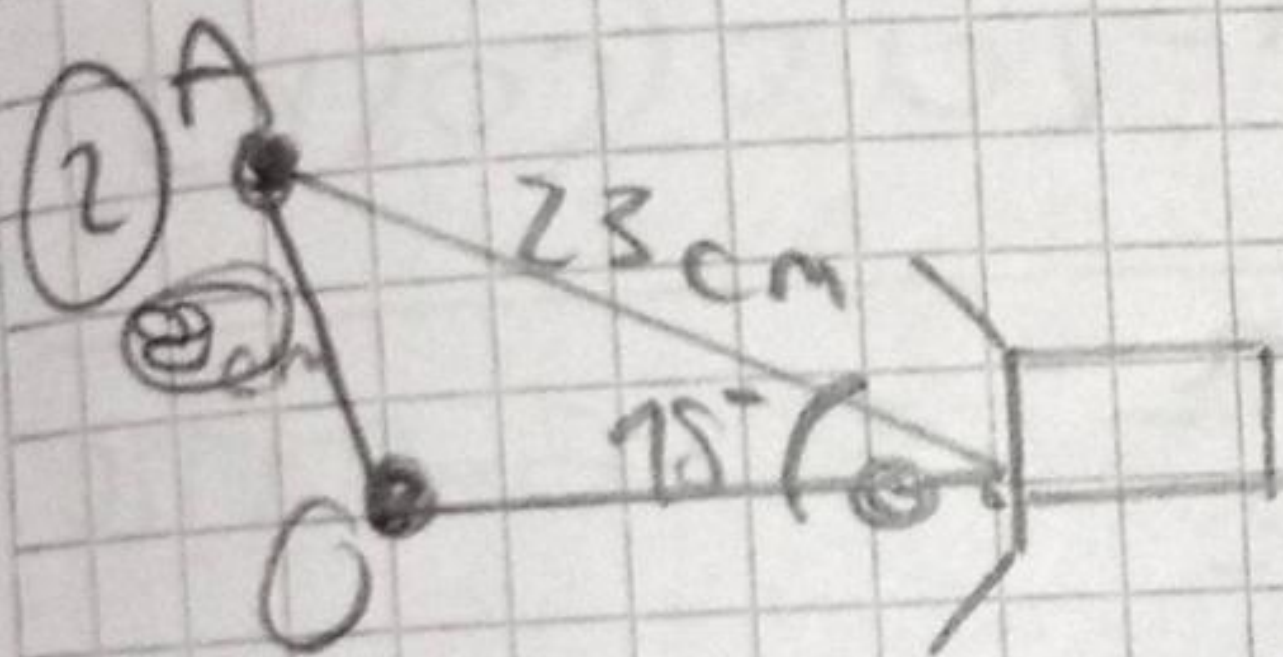
$$200 / \sin(45^\circ) = h / \sin(45^\circ) = x = 200 - h(2)$$

$$200 = 2,73$$

$$h = (200) / (2,73)$$

$$h = 73,26007 \dots$$

$$h = 73,2$$



$$\sin^{-1}(\cos) = 48,37$$

$$\alpha = 180 - 15 - 48,37 = 116,63$$

$$\sin(116,63)$$

$$\frac{200 \cdot 0,801}{0,76}$$

$$= \frac{160,2}{0,76}$$

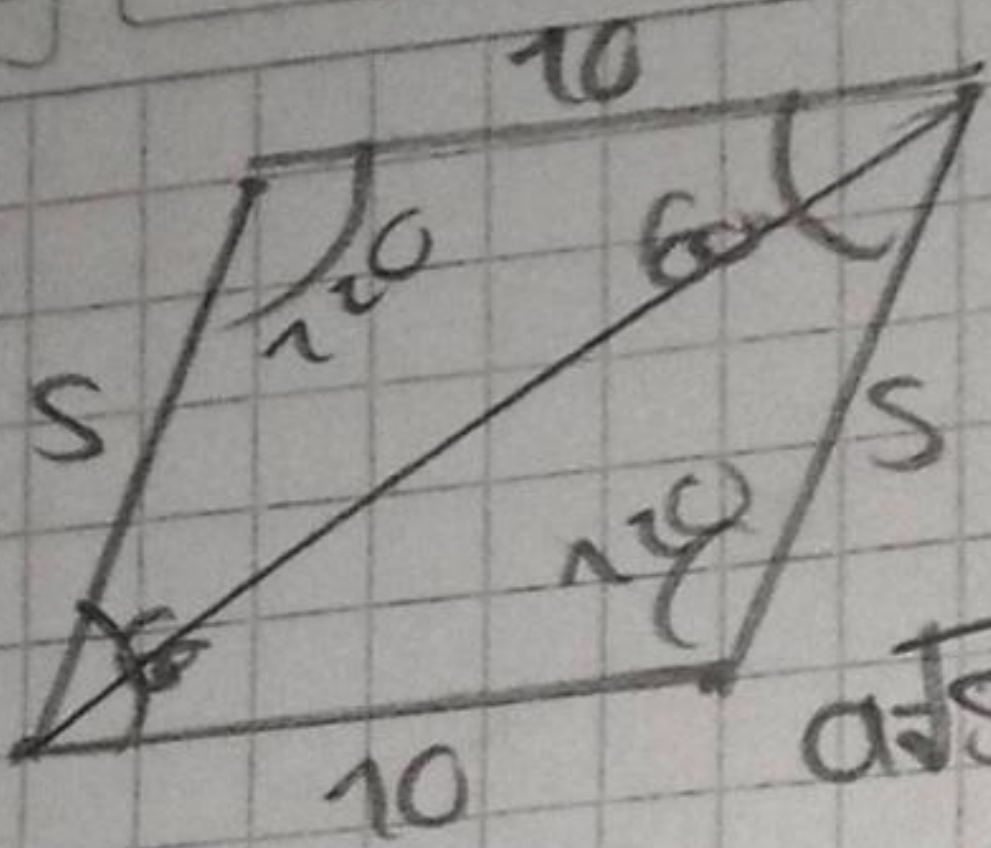
$$= 210,789 \text{ cm}$$

profe usted lo aproximó?

$$210,8 \text{ cm}$$

## Ley del Coseno

③



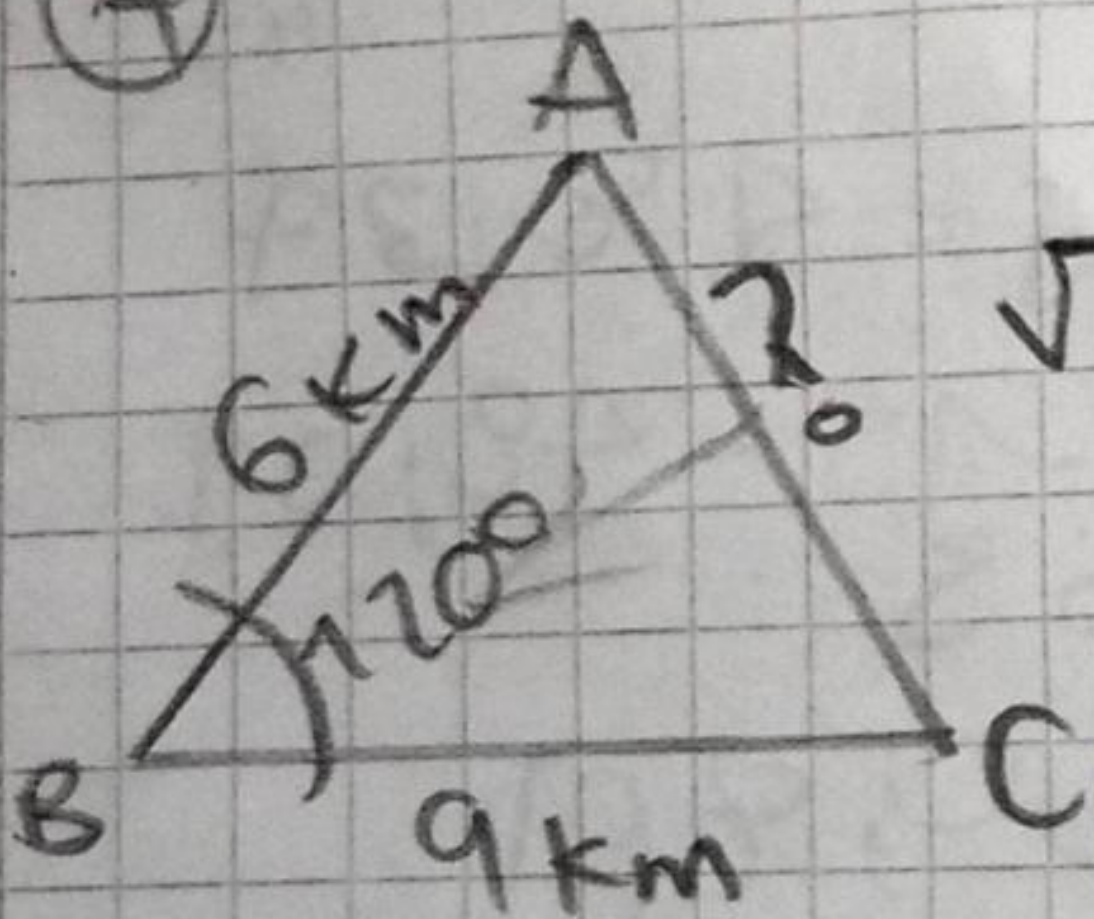
$$a^2 = b^2 + c^2 - 2bc \cos(\alpha)$$

$$a^2 = S^2 + 10^2 - 2(S)(10) \cos(120)$$

$$a = 13,22$$

$$13,22 \text{ cm}$$

④



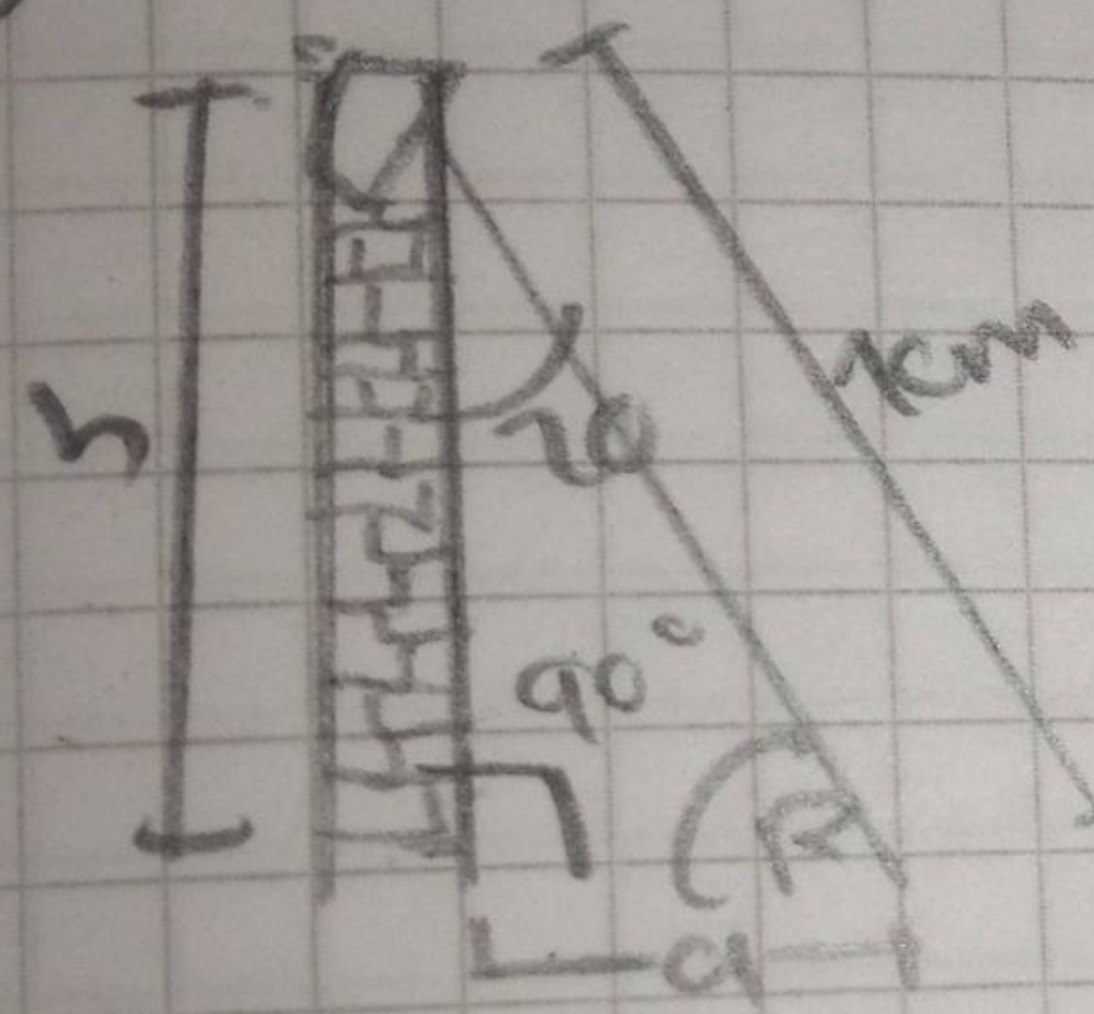
## Ley del Coseno

$$b^2 = a^2 + c^2 - 2ac \cos(B)$$

$$\sqrt{b^2} = \sqrt{9^2 + 6^2 - 2 \cdot 9 \cdot 6 \cdot \cos(120)}$$

$$b = 13,07 \text{ km}$$

5) valor de la altura (h)



$$h / \text{sen } 90^\circ$$
$$h / \text{sen } 70^\circ$$

$$10 = \text{sen } 70^\circ \cdot X$$

$$h = 10 \cdot 0,939$$

$$h = 9,39m$$