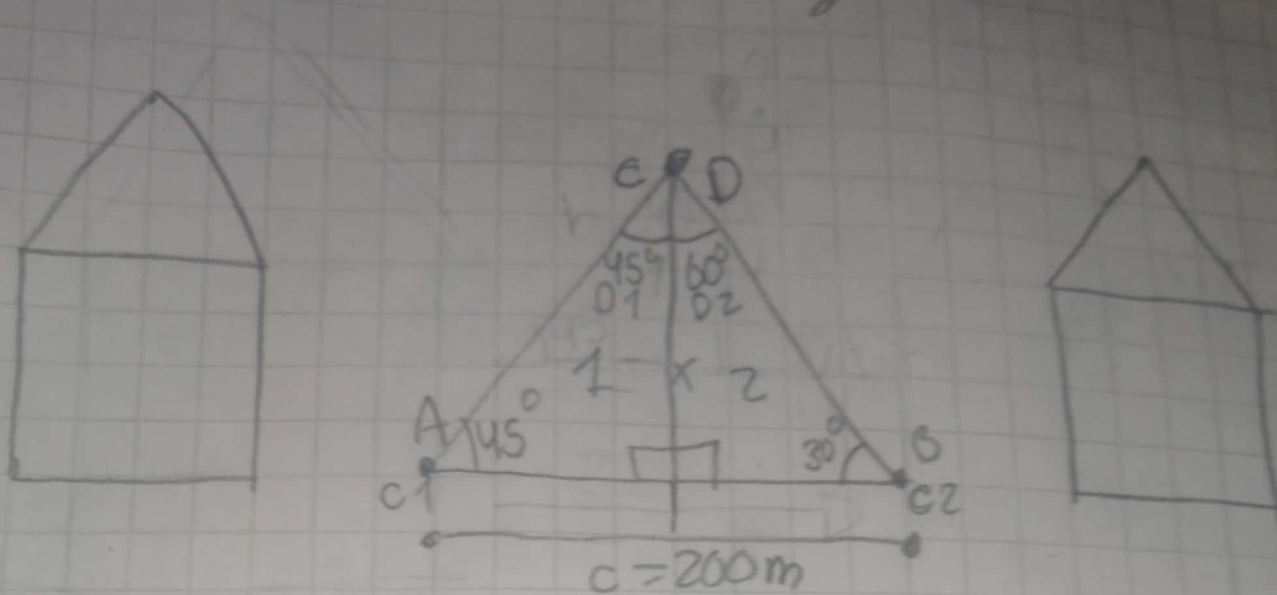


1) 200m P medidas 30° y 45°



$$1: 45^\circ + 90^\circ + \alpha_1 = 180^\circ$$

$$\alpha_1 = 45^\circ$$

$$2: 30^\circ + 90^\circ + \alpha_2 = 180^\circ$$

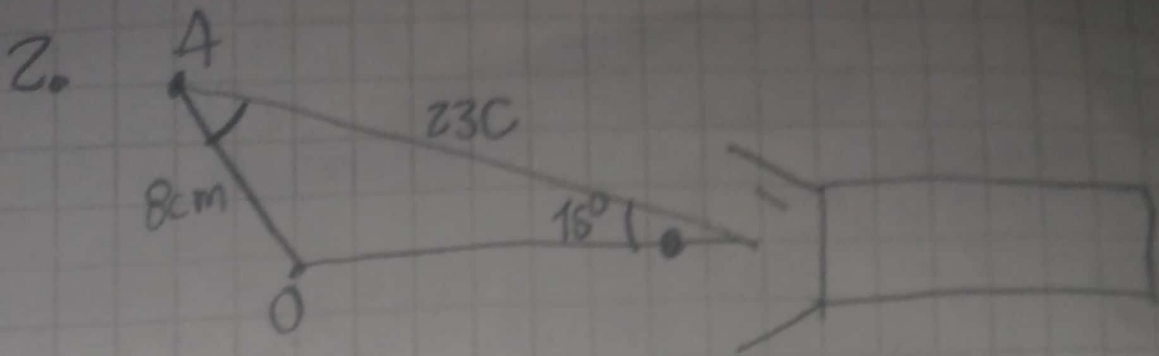
$$\alpha_2 = 60^\circ$$

$$\frac{\text{Sen}(45)}{\text{Sen}(45 + 60)} \cdot 200 \rightarrow a = \frac{\text{Sen}(45)}{\text{Sen}(105)} \cdot 200 = a = 146,41\text{m}$$

$$\text{Sen}(B) = \frac{h}{a} \rightarrow h = a \cdot \text{Sen}B$$

$$h = 146,41 \cdot \text{Sen}30$$

$$h = 73,205\text{m}$$



$$O = 48.37$$

$$A = 180 - 15 - 48.37$$

$$A = 116.63$$

$$\sin(A) = 0.84$$

$$\boxed{R = 27.38}$$

$$3. \quad c^2 = 5^2 + 10^2 - 2(5)(10) \cdot \cos 120^\circ$$

$$c^2 = 25 + 100 - 100 \cdot -0.5$$

$$c^2 = 125 - -50$$

$$c^2 = 175$$

$$c^2 = \sqrt{175}$$

$$\boxed{c^2 = 13.22}$$

$$4. \quad Ac^2 = 6\text{km}^2 + 9\text{km}^2 - 2(6\text{km})(9\text{km}) \cdot \cos 120^\circ$$

$$Ac^2 = 36 + 81 - 108 \cdot -0.5$$

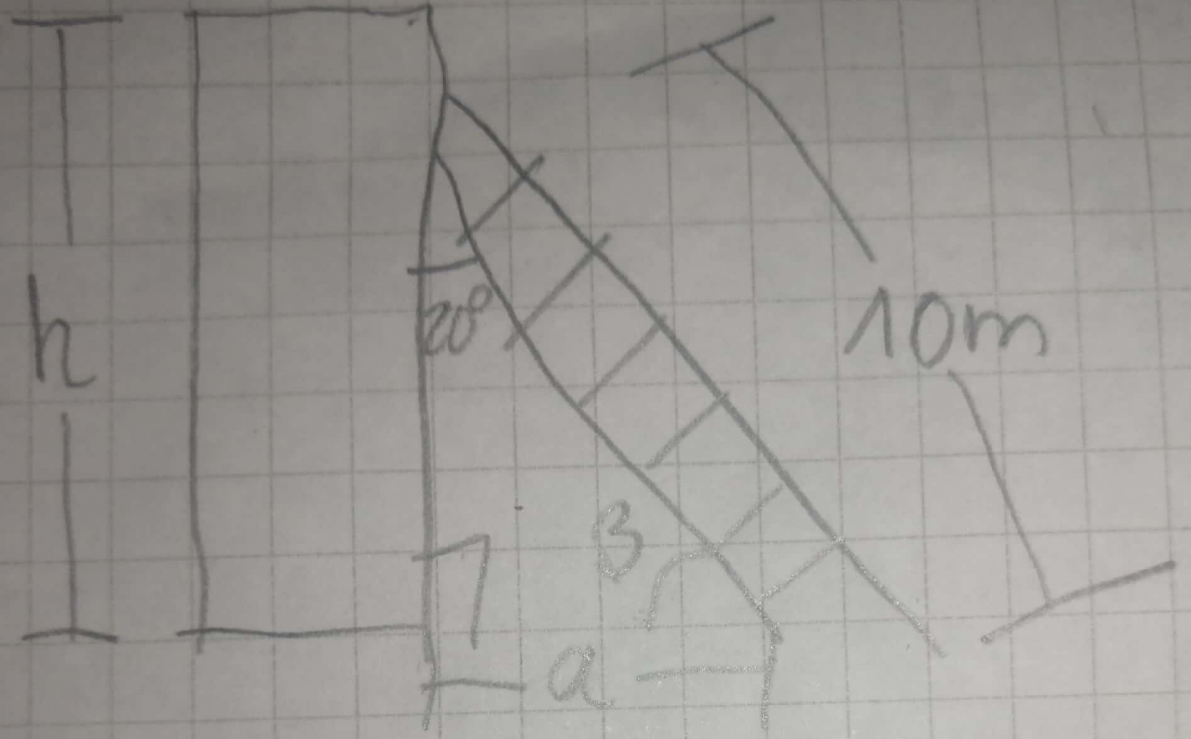
$$Ac^2 = 117 - -54$$

$$Ac^2 = 171$$

$$Ac^2 = \sqrt{171}$$

$$\boxed{Ac^2 = 13.07}$$

5.



$$\cos(20) = 0,93 + 10$$

$$10,93$$

$$11m$$