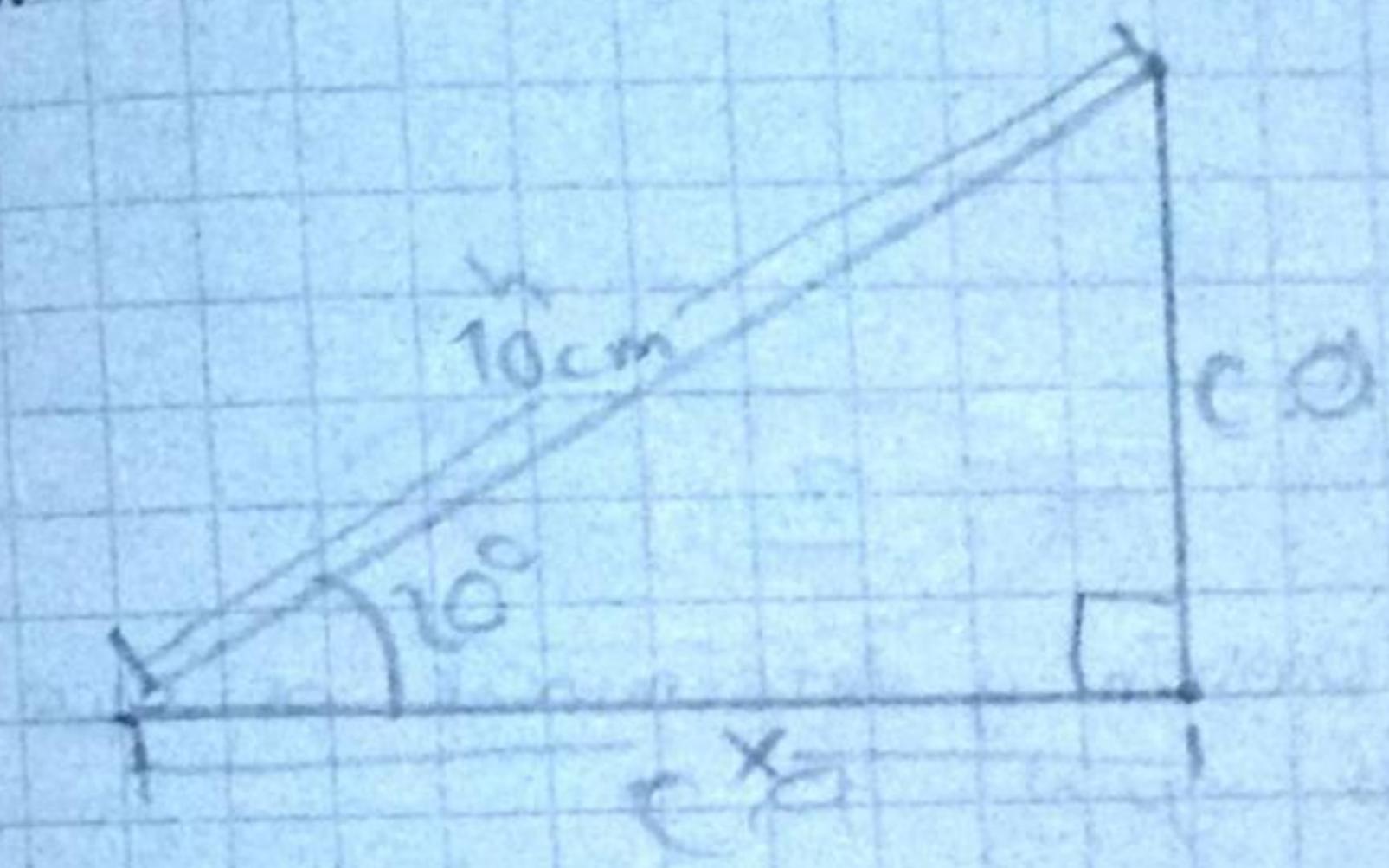


EXAMEN

- 1) ¿Cuál es el valor de h ?
- $\tan(53^\circ) = \frac{h}{100}$
- $\tan(45^\circ) = \frac{h}{x}$
-
- $\tan(53^\circ) = \frac{h}{100 + h}$
- $\tan(45^\circ) = \frac{h}{100 - h}$
- $R = 185$

- 2) ¿Cuál es el valor del cateto adyacente?



$$10\text{m}$$
$$\theta = 32$$

$$\cos(32^\circ) = \frac{cd}{10\text{m}}$$

$$= R = 10\text{cm} \cdot \cos(32^\circ)$$

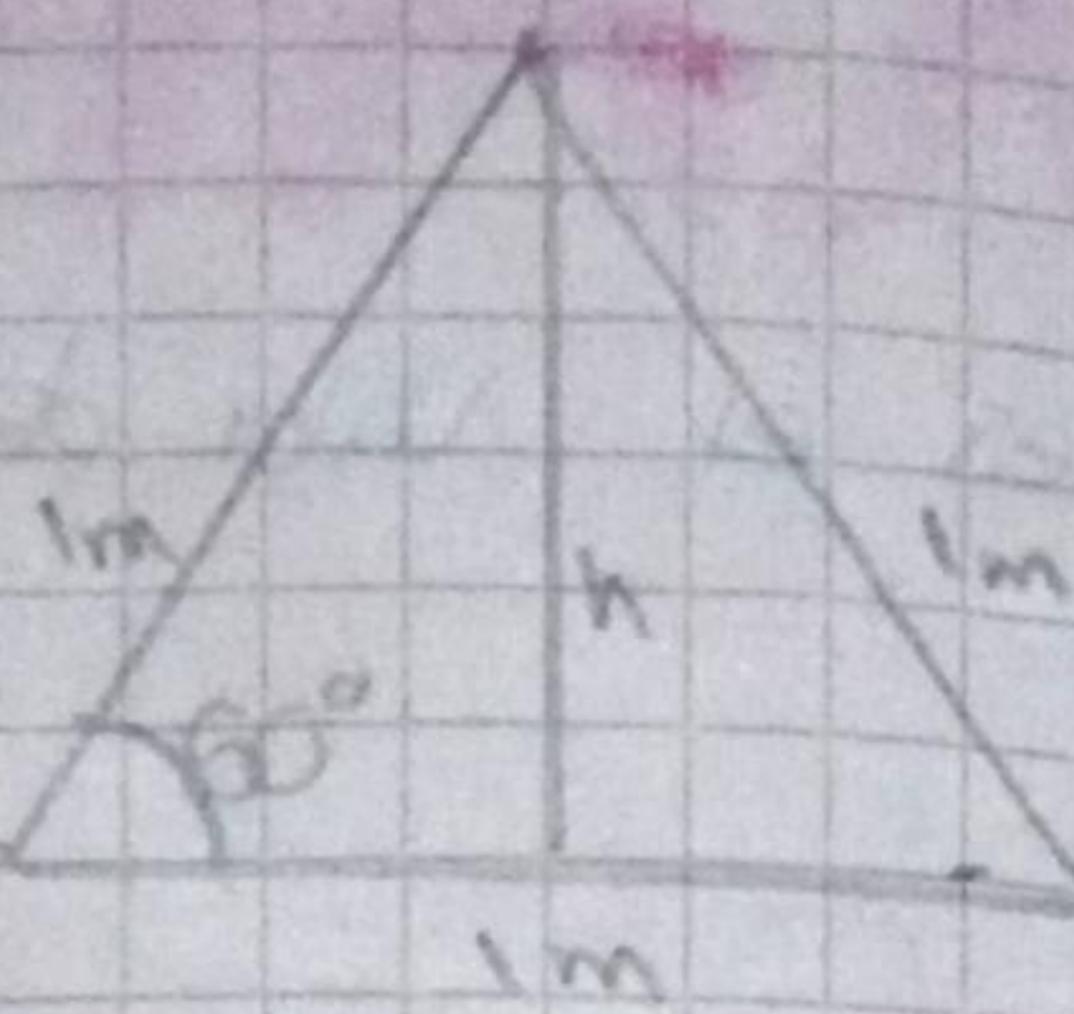
$\cos(32^\circ) = 0,8439092...$

$$= (9,39)6926...$$

3 Determine la altura h del triángulo

$$\cos(60^\circ) = \frac{1}{2}$$

$$k = \frac{1}{2} = h = 0,5$$



4 Si $\operatorname{Sen}(\theta) = \frac{1}{3} \operatorname{Sen}(\alpha)$, Calcular $\operatorname{Sen}(\alpha) - \operatorname{Csc}(\theta) + \operatorname{Stan}$

$$\operatorname{Cot}(\theta) = \frac{\operatorname{Csc}(\theta)}{\operatorname{Sen}(\theta)}$$

$$\operatorname{Cot}(\theta) + \operatorname{Sec}(\alpha)$$

$$\frac{\operatorname{Cot}(\theta)}{\operatorname{Csc}(\theta)} = \operatorname{Stan}(\theta) \\ = \operatorname{Stan}(0, A_1) = \frac{3}{2,07}$$

5 Operai la siguiente expresión y determinar a que función trigonométrica es igual

$$1 + \operatorname{tan}^2(\theta) = ?$$

$$1 + \operatorname{sec}^2(\theta) \neq 1$$

$$\operatorname{Stan}^2 = \frac{\operatorname{Sec}^2}{\operatorname{Cot}^2}$$

$$\operatorname{Stan}^2(\theta) = \frac{\operatorname{Sec}^2(\theta)}{\operatorname{Cot}^2(\theta)} = \frac{1 + \operatorname{tan}^2(\theta)}{\operatorname{Cot}^2(\theta)}$$

$$1 + \operatorname{tan}^2(\theta) = \operatorname{Sec}^2(\theta)$$