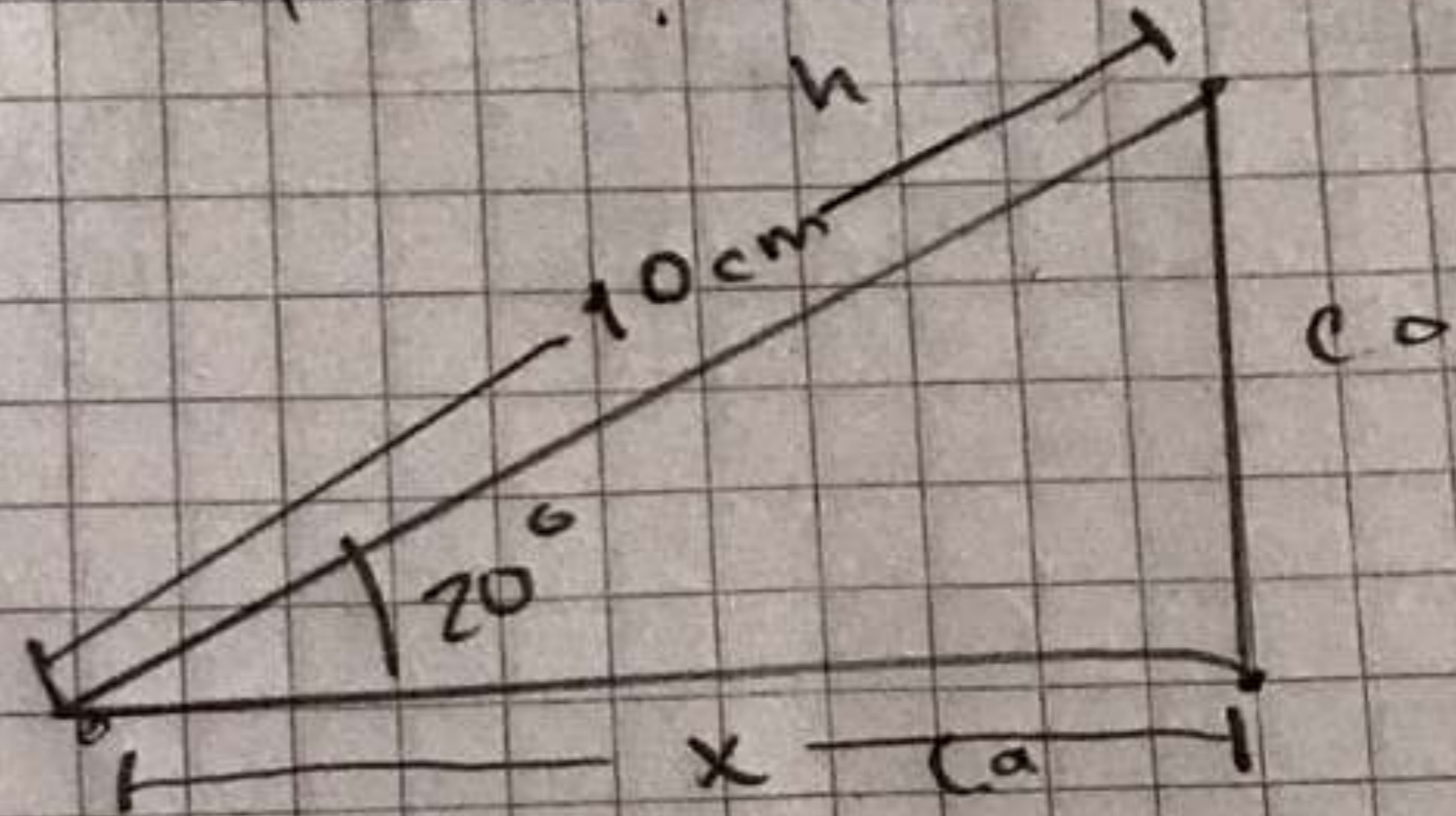


2. ¿Cuál es el valor del cateto adyacente?

$$\cos = \frac{c.a.}{h} = \frac{?}{10 \text{ cm}}$$

$$c.a. = 10 \cdot \cos(20^\circ)$$

$$c.a. = 9,396 \text{ cm}$$

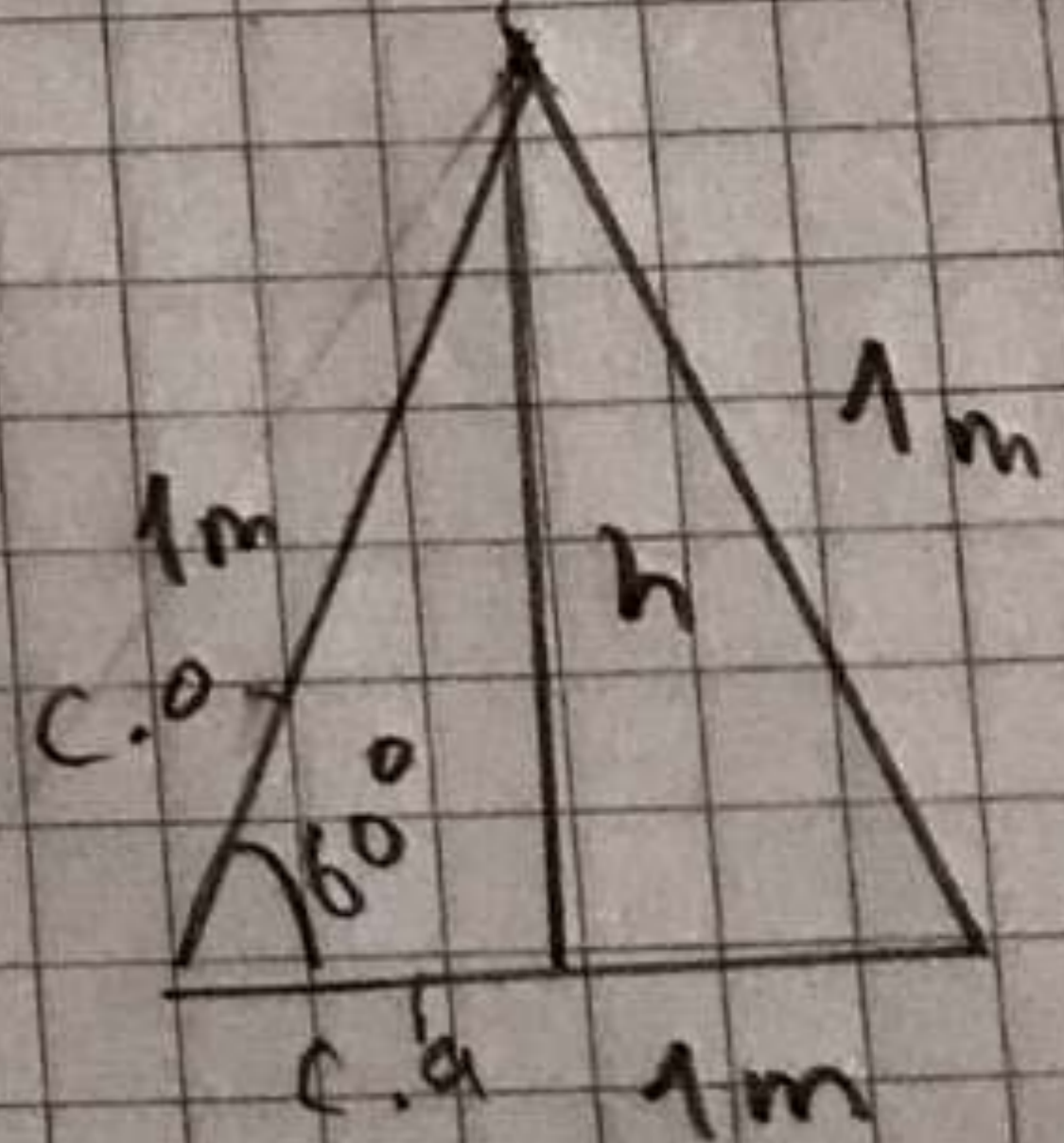


3. Determine el valor de la altura h del triángulo

$$\text{Sen} = \frac{c.o.}{h} = \frac{1}{?}$$

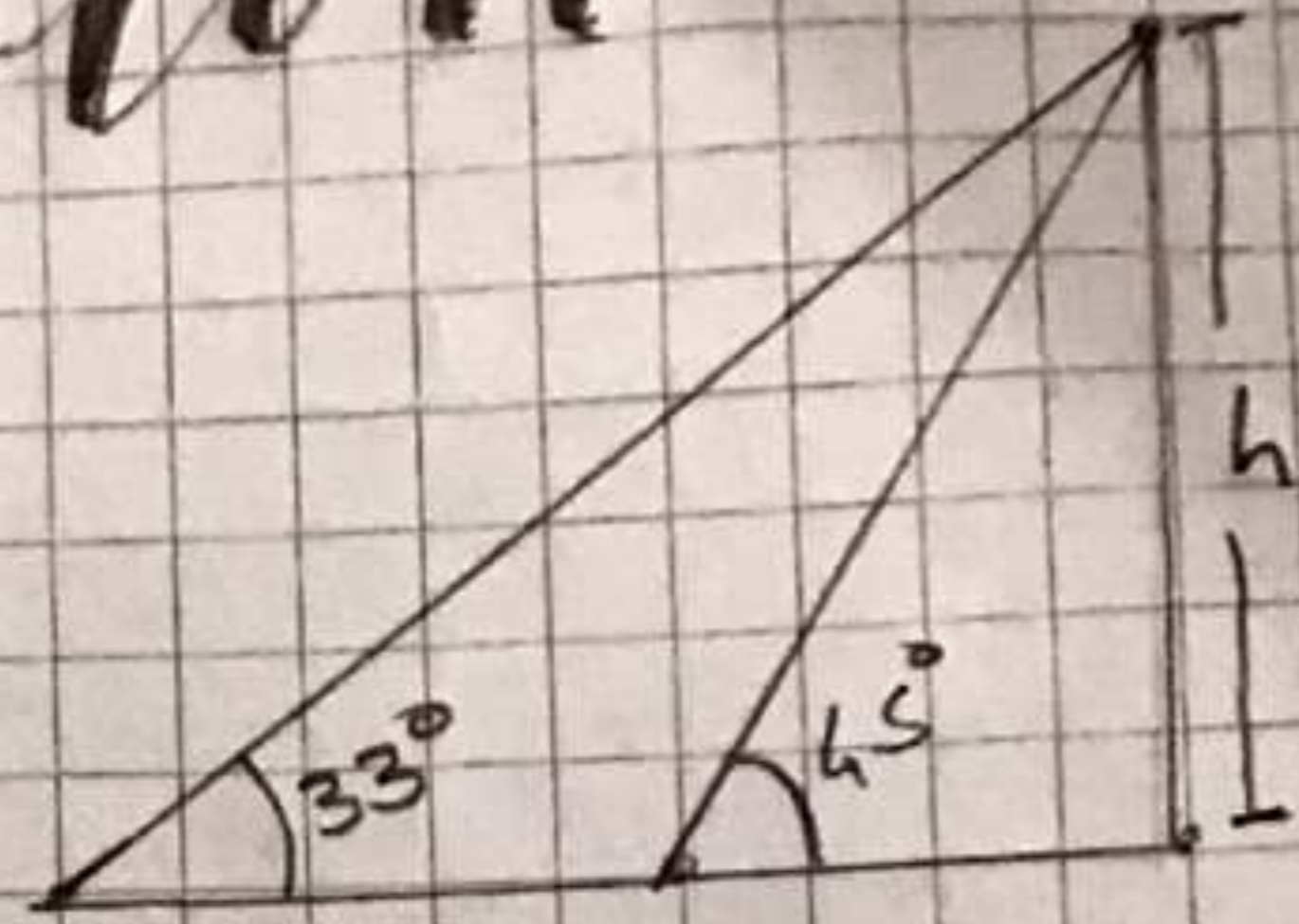
$$h = \frac{1}{\text{Sen}(60^\circ)} \quad h = \frac{1}{0,86}$$

$$h = 1,16$$



# Evaluación

1. ¿Cuál es el valor de h?



$$\tan = \frac{c.a}{c.o} = \frac{100}{?} \quad c.o = \frac{100}{\tan(45^\circ)}$$

$$\textcircled{1} \tan(33^\circ) \frac{c.o}{c.a} = \frac{h}{100+x \rightarrow ?}$$

$$\textcircled{2} \tan(45^\circ) = \frac{h}{x \rightarrow ?}$$

$$x = \frac{h}{\tan(45^\circ)} \rightarrow 1$$

$$\frac{100+h}{1 \tan^\circ}$$

$$\textcircled{1} \tan(33) = \frac{h}{100+h} \cdot \frac{1}{\tan(45^\circ)}$$

$$\frac{100 \cdot \tan(45^\circ) + h}{\tan(45^\circ)} = 0,64 = \frac{h}{100+h} \Rightarrow (100+h)(0,64) = h$$
$$= 100 \cdot 0,64 + 0,64h = h$$
$$= 100 + h$$

$$(100)(0,64) + 0,64h = h$$

$$64 + 0,64h = h$$

$$64 = h - 0,64h = h(1 - 0,64)$$

$$64 = 0,36h$$

$$\frac{64}{0,36} = h$$

$$\boxed{178_m = h}$$

S.

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

$$\frac{1}{1} + \frac{1}{\cancel{c.a}} + \frac{1}{\cancel{c.a}} \frac{c.o + c.g}{c.a}$$

$$1 + \frac{c.o}{c.a}(\theta)$$

$$= \frac{c.o + c.g}{c.a} \theta$$

$$\frac{1}{c.a \theta} = \left( \frac{h}{c.a} \right)$$