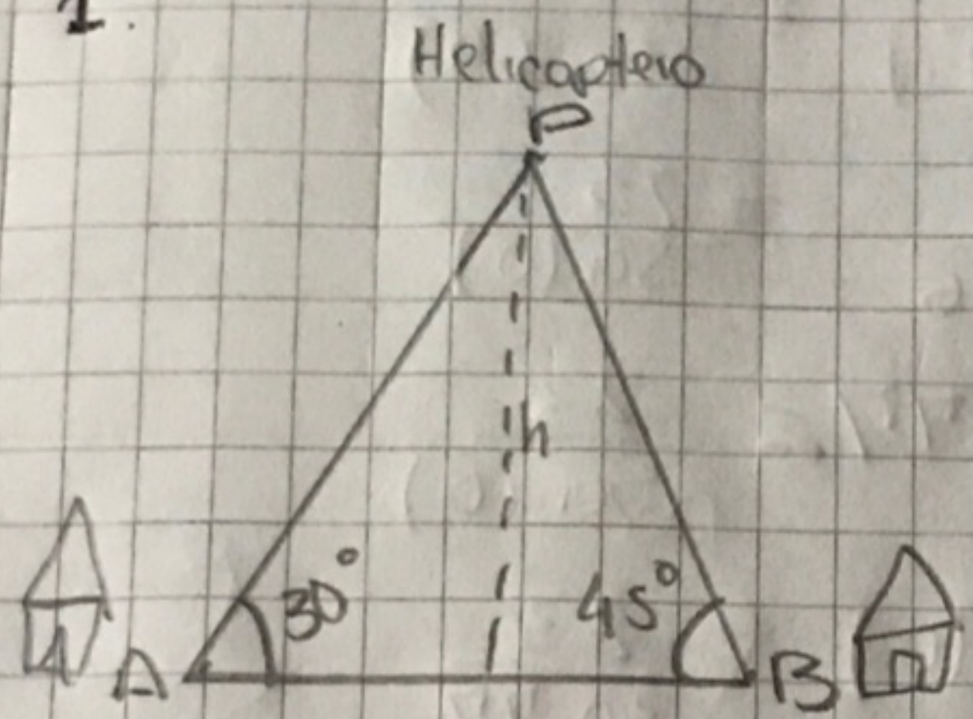
31- Agosto - 2021.

Evaluación

1.



$$\frac{x}{\text{Sen}60^\circ} = \frac{h}{\text{Sen}30^\circ}$$

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

$$x = \frac{h \cdot 0{,}866}{0{,}5}$$

$$\boxed{x = 1{,}73h}$$

$$\frac{(200 - x)}{\text{Sen}(45^\circ)} = \frac{h}{\text{Sen}(45^\circ)}$$

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

$$200 - x = h \cdot 1$$
$$200 - x = h$$
$$200 - h = x$$
$$x = 200 - h$$

$$200 - h = 1{,}43h$$
$$200 = 1{,}73h + h$$
$$200 = 2{,}73h$$

$$h = \frac{200}{2{,}73}$$

$$\boxed{h = 73{,}26\,m}$$

Rta = 73,26m

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2. $\frac{a}{sen(A)} = \frac{o}{sen(O)} = \frac{p}{sen(P)}$

$\frac{a}{sen(A)} = \frac{p}{sen(P)}$

$a = \frac{P \cdot Sen(A)}{Sen(P)} = \frac{8 \cdot 0.80}{0.26}$

$= \frac{7.12}{0.26}$

$= 27.38$

Rta: 27.38

$\frac{p}{sen(P)} = \frac{o}{sen(O)}$

$\frac{8}{sen(45)} = \frac{23}{sen(O)}$

$\frac{8}{0.26} = \frac{23}{Sen(O)}$

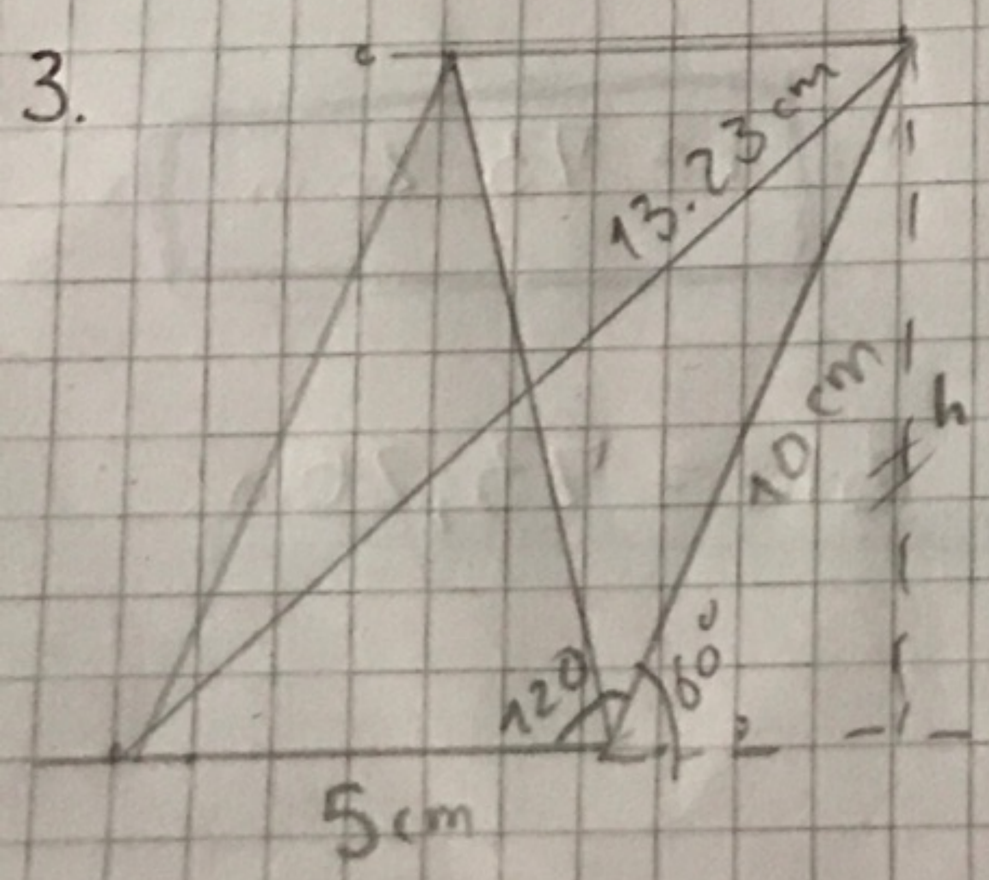
$30.77 = \frac{23}{Sen(O)}$

$Sen(O) = \frac{23}{30.77}$

$Sen^{-1}(O) = 48.37$

$O = 48.37$

3.



$d = \sqrt{5^2 + 10^2 - 2(5)(10)\cos(120°)}$

$d = 13.23 cm$

$d1 = 13.23 cm$

$Sen(60°) = \frac{h}{10}$

$h = 10\ Sen(60°)$

$h = 8.66 cm$

$d_2 = 8,66 cm$

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4. DATOS

AB = 6km
BC = 9km
∢B = 120°
AC = ?

$AC^2 = AB^2 + BC^2 - 2 \cdot AB \cdot BC \cdot \cos(120°)$

$AC^2 = 6^2 + 9^2 - 2 \cdot 6 \cdot 9 \cdot (-0,5)$

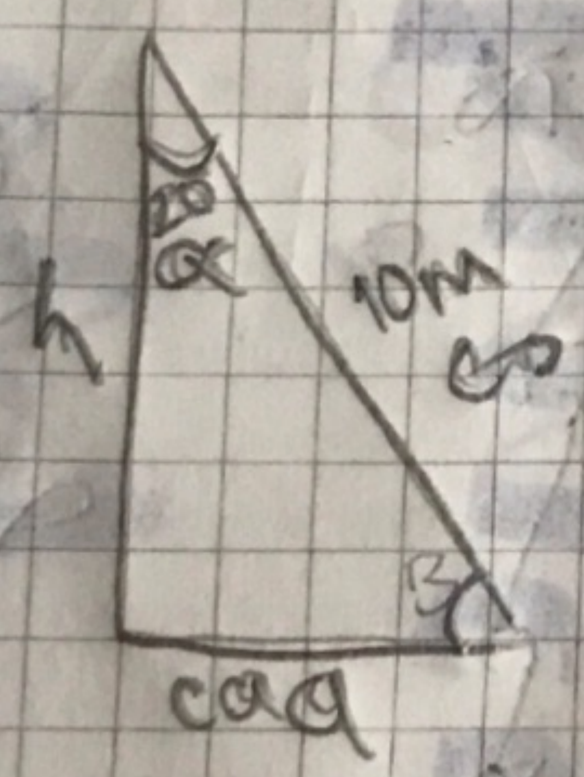
$AC^2 = 36 + 81 + 54$

$AC^2 = 171$

$AC = \sqrt{171}$

$\boxed{AC\ 13,07}$

RTA = 13,07



$\text{Sen} = \cos 20° = \frac{10 \cdot 10}{h}$

$(10) \cdot \cos 120° = 9.39$ cm

$h = 9.39$

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