

## PROCESOS DE RESPUESTAS DEL EXAMEN

1

$$\begin{aligned}K + K\sqrt{3} &= 200 \\K(1 + \sqrt{3}) &= 200 \\K &= \frac{200}{(1 + \sqrt{3})} \\K &= 73,20\text{m}\end{aligned}$$

2

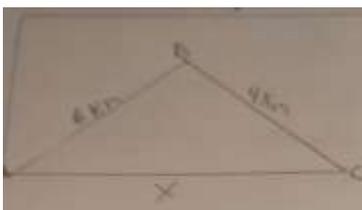
$$\begin{aligned}\frac{23}{\sin p} &= \frac{8}{\sin 15^\circ} \\ \sin p &= \frac{23 \times \sin 15^\circ}{8} = 0,744 \\ \sin(0,744) &= p = 49^\circ = 132^\circ \\ \frac{x}{\sin 33} &= \frac{8}{\sin 15^\circ} \\ x &= \frac{8 \times \sin 33}{\sin 15^\circ} = x = 16,83\end{aligned}$$

3

$$\begin{aligned}d &= \sqrt{95^2 + 10^2 - 2(95)(10)\cos 120^\circ} \\ d &= 13,23 \text{ cm}\end{aligned}$$

$\sin 46^\circ \frac{d}{10}$   
 $d = 10 \sin 46^\circ$   
 $d = 7,66 \text{ cm}$

4


$$\begin{aligned}x^2 &= 6^2 + 4^2 - 2(6)(4)\cos 120^\circ \\ x^2 &= 36 + 16 - 48\cos 120^\circ \\ x^2 &= 36 + 16 + 24 \\ x^2 &= 76 \\ x &= \sqrt{76} = 13,0 \text{ km}\end{aligned}$$

5

$$\begin{aligned}\cos(20^\circ) &= \frac{0,9396 \times 10}{9,396}\end{aligned}$$