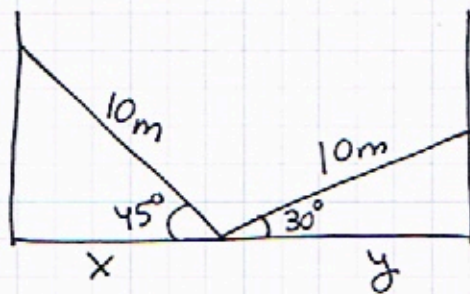


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$$\cos 45^\circ = \frac{x}{10} \Leftrightarrow \frac{\sqrt{2}}{2} = \frac{x}{10} \Leftrightarrow x = 5\sqrt{2} \text{ m}$$

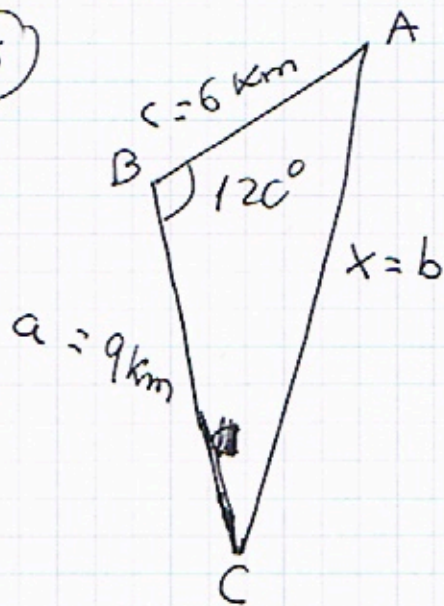
$$\cos 30^\circ = \frac{y}{10} \Leftrightarrow \frac{\sqrt{3}}{2} = \frac{y}{10} \Leftrightarrow y = 5\sqrt{3} \text{ m}$$

L'amplada del canal és $x+y$,

és a dir: $5\sqrt{2} + 5\sqrt{3} = 5(\sqrt{2} + \sqrt{3}) \approx$

$\approx 15,73 \text{ m}$

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Teorema del Cosinus:

$$b^2 = a^2 + c^2 - 2ac \cdot \cos \hat{B}$$

$$x^2 = 9^2 + 6^2 - 2 \cdot 9 \cdot 6 \cos 120^\circ$$

$$x^2 = 81 + 36 - 108 \cdot \left(-\frac{1}{2}\right)$$

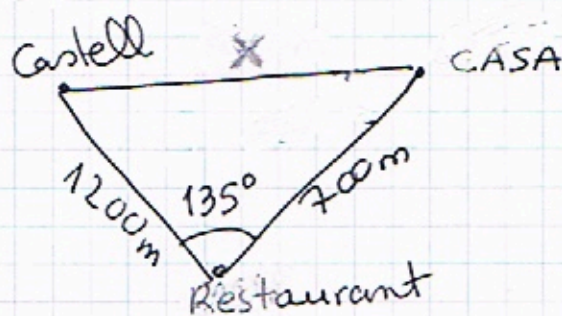
$$x^2 = 117 + 54 = 171$$

$$x = \sqrt{171} = 3\sqrt{19} \approx 13,08 \text{ km}$$

\uparrow
 $x > 0$

La distància entre A i C és aproximadament 13km

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Teorema del Cosinus: $x^2 = 1200^2 + 700^2 - 2 \cdot 1200 \cdot 700 \cos(135^\circ)$