

1)

a)  $\cos \alpha = 0^\circ 52$  y  $\alpha$  es agudo.

$$\alpha = \arccos(0^\circ 52) = 58^\circ 6677$$

$$\operatorname{sen} \alpha = 0^\circ 8542$$

$$\operatorname{tg} \alpha = 1^\circ 6426$$

Lunes, 18 de mayo.

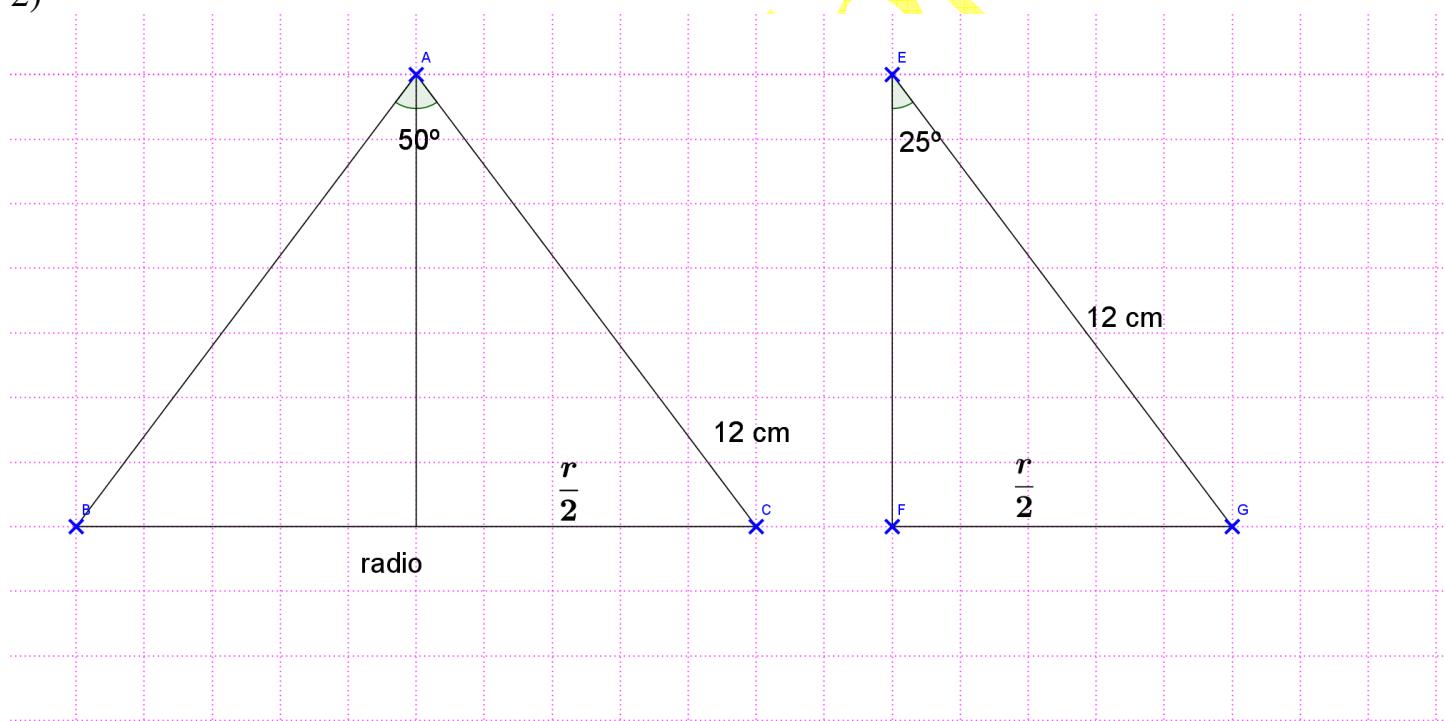
b)  $\operatorname{tg} \beta = \frac{12}{5}$  y  $\beta$  es agudo.

$$\beta = \operatorname{arctg}\left(\frac{12}{5}\right) = 67^\circ 3801$$

$$\operatorname{sen} \beta = \frac{12}{13} = 0^\circ 9231$$

$$\cos \beta = \frac{5}{13}$$

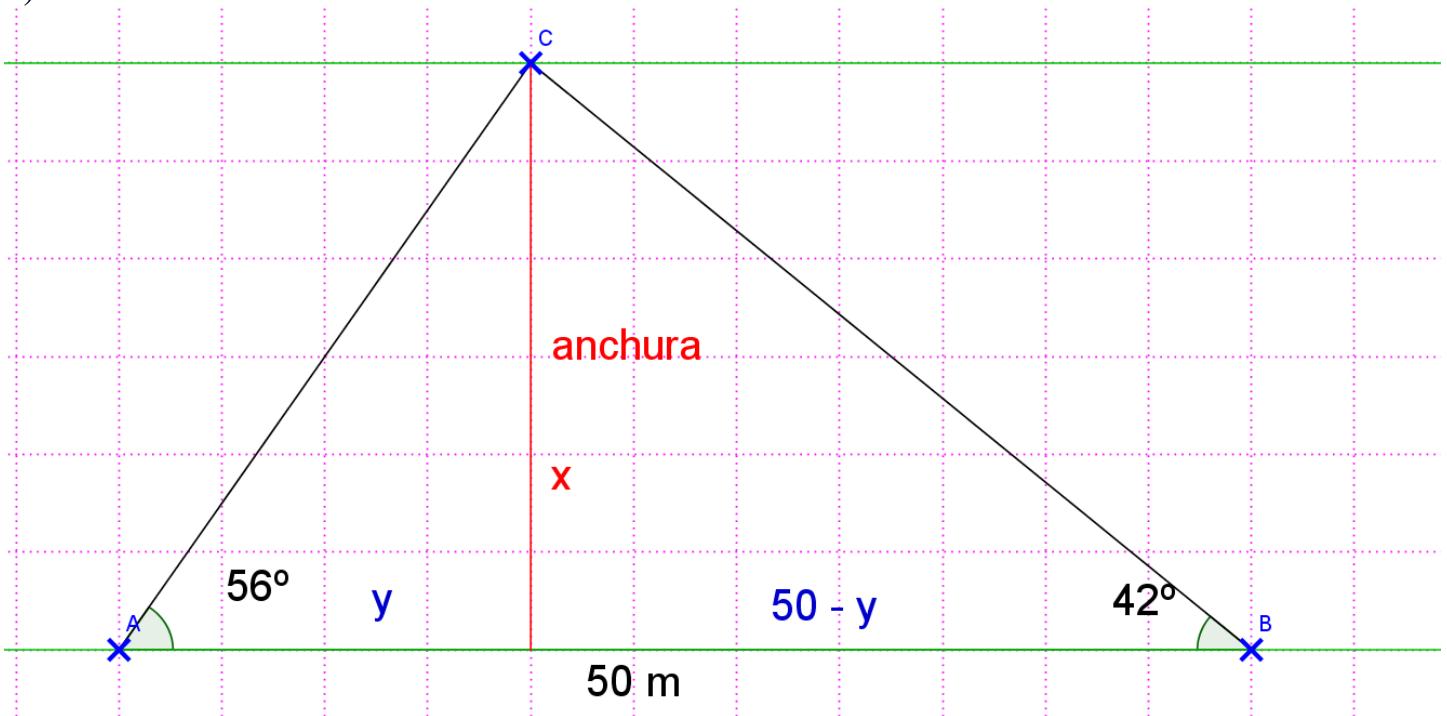
2)



$$\operatorname{sen} 25^\circ = \frac{r/2}{12}; \quad 12 \operatorname{sen} 25^\circ = \frac{r}{2}; \quad r = 2 \cdot 12 \cdot \operatorname{sen} 25^\circ = 10^\circ 1428 \text{ cm}$$

Con esa abertura puede trazarse una circunferencia de radio 10°1428 cm.

3)



$$\begin{cases} \tan 56^\circ = \frac{x}{y} \rightarrow x = y \tan 56^\circ \\ \tan 42^\circ = \frac{x}{50-y} \end{cases}$$

$$\tan 42^\circ = \frac{y \tan 56^\circ}{(50-y)}; \quad (50-y) \tan 42^\circ = y \tan 56^\circ; \quad 50 \tan 42^\circ - y \tan 42^\circ = y \tan 56^\circ$$

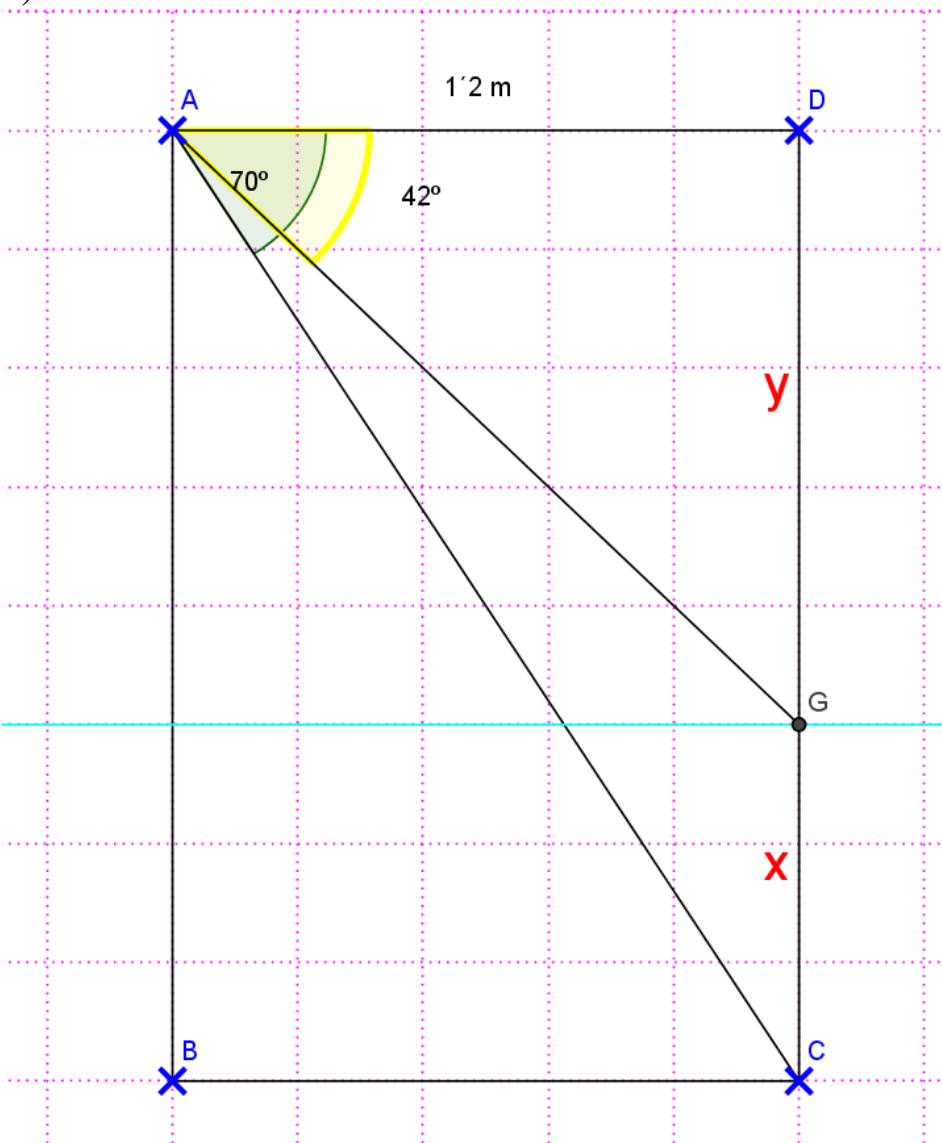
$$50 \tan 42^\circ = y \tan 42^\circ + y \tan 56^\circ$$

$$50 \tan 42^\circ = y (\tan 42^\circ + \tan 56^\circ); \quad y = \frac{50 \tan 42^\circ}{\tan 42^\circ + \tan 56^\circ} \rightarrow$$

$$x = \frac{50 \tan 42^\circ}{\tan 42^\circ + \tan 56^\circ} \tan 56^\circ = 28'0093 \text{ m}$$

La anchura del río es de 28'0093 m

5)



www.Schule

Rechner.Es