

Igualem les dues expressions d'h:

(13)

$$2x \operatorname{tg} \alpha = x \operatorname{tg} 35^\circ \Leftrightarrow 2 \operatorname{tg} \alpha = \operatorname{tg} 35^\circ \Leftrightarrow$$

$$\Leftrightarrow \boxed{\operatorname{tg} \alpha = \frac{\operatorname{tg} 35^\circ}{2}} \quad (*)$$

$$\operatorname{tg} \alpha = \frac{0'7}{2} = 0'35$$

$$\alpha = \operatorname{arctg}(0'35) = 19,30^\circ$$

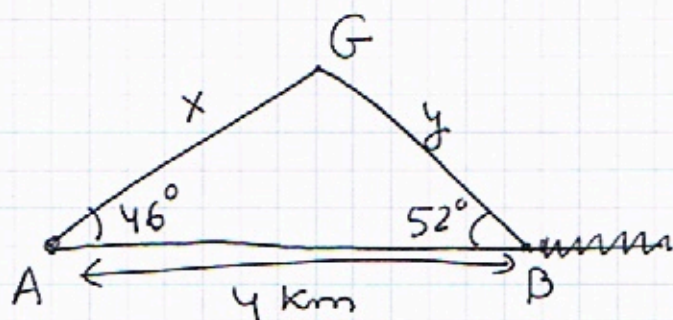
Si la distància és el triple:

Canviem en (\*) el 2 per un 3.

$$\operatorname{tg} \alpha = \frac{\operatorname{tg} 35^\circ}{3} = \frac{0'7}{3} = 0'23$$

$$\alpha = \operatorname{arctg}(0'23) = 13,14^\circ$$

(13)



$$x = ?$$
$$y = ?$$

$$\hat{A} = 46^\circ, \hat{B} = 52^\circ$$

$$\hat{A} + \hat{B} + \hat{G} = 180^\circ \Leftrightarrow 46 + 52 + G = 180^\circ \Leftrightarrow G = 82^\circ$$

Tram del sinus:

$$\frac{4}{\sin 82^\circ} = \frac{x}{\sin 52^\circ} \Leftrightarrow x = \frac{4 \sin 52^\circ}{\sin 82^\circ} = 3,18 \text{ km}$$

$$\frac{4}{\sin 82^\circ} = \frac{y}{\sin 46^\circ} \Leftrightarrow y = \frac{4 \cdot \sin 46^\circ}{\sin 82^\circ} = 2,91 \text{ km}$$

~~L'~~ L'observador A es troba a 3,18 km del globus i l'observador B a 2,91 km