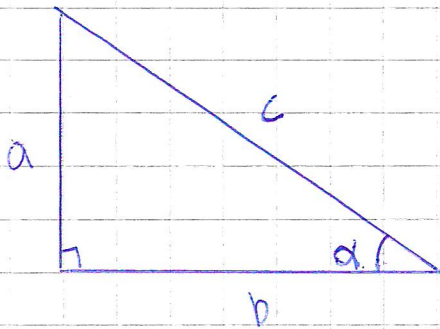


Trigonometrisi ja funktoita

s. 55, s. 58

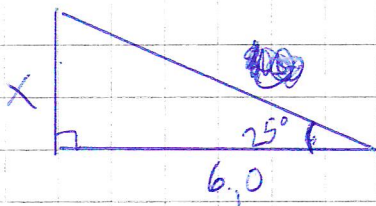


$$\sin \alpha = \frac{a}{c}$$

$$\cos \alpha = \frac{b}{c}$$

$$\tan \alpha = \frac{a}{b}$$

Esim. 1

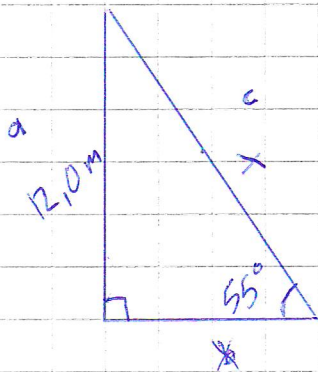


$$\tan 25^\circ = \frac{x}{6}$$

$\parallel \cdot 6$

$$x = 6 \cdot \tan 25^\circ$$

$$x = 2,797... \approx 2,8$$



$$\sin 55^\circ = \frac{12,0}{x}$$

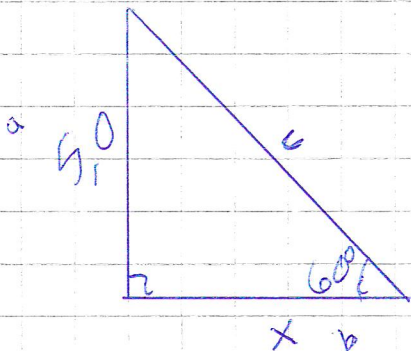
$\parallel \cdot x$

$$x \cdot \sin 55^\circ = 12,0$$

$\parallel : \sin 55^\circ$

$$x = \frac{12,0}{\sin 55^\circ}$$

$$x = 14,649... \approx 15 \text{ (m)}$$



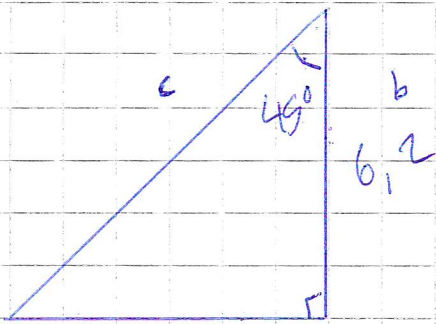
$$\tan 60^\circ = \frac{5,0}{x}$$

$\parallel \cdot x$

$$x \cdot \tan 60^\circ = 5,0$$

$\parallel : \tan 60^\circ$

$$x = \frac{5,0}{\tan 60^\circ} = 2,886... \approx 2,9$$

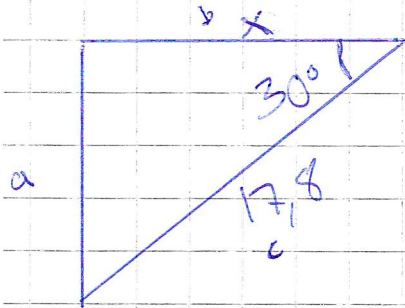


$$\tan 45^\circ = \frac{x}{6,2}$$

$$\parallel \cdot 6,2$$

$$x = 6,2 \cdot \tan 45^\circ$$

$$x = 6,2$$



$$\cos 30^\circ = \frac{x}{17,8}$$

$$\parallel \cdot 17,8$$

$$x = 17,8 \cdot \cos 30^\circ$$

$$x = 17,8 \cdot 0,8660254$$

$$x = 15,415... \approx 15$$

$$s. 56 \quad t. 198, 199, 200$$

$$s. 58 \quad b. 217, 218$$

$$\text{Vastalukset: } s. 71, 72$$