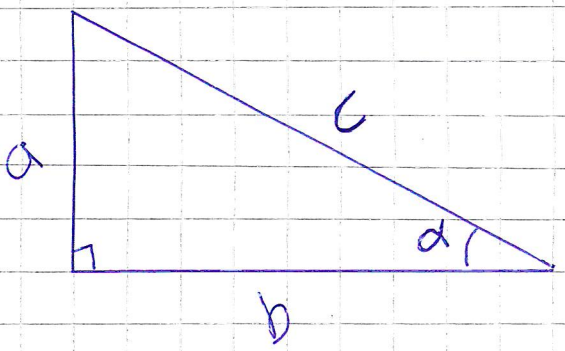
Trigonometriset funktiot s. 51



$$\sin\alpha = \frac{a}{c}$$
$$\cos\alpha = \frac{b}{c}$$
$$\tan\alpha = \frac{a}{b}$$

a vastainen kateetti (=vastapäätä)

b viereinen kateetti (=vieressä)

c hypotenuusa

s. 52 t. 179

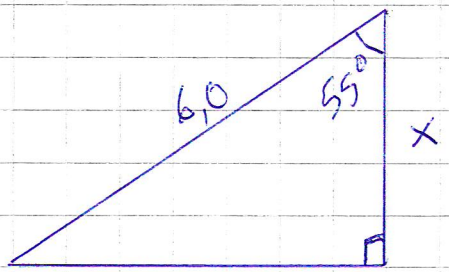
a) Viereinen: 4,3 cm, vastainen 1,9 cm

b) Viereinen: 2 cm Vastainen 1 cm

$$\sin(35°) = \frac{x}{6} \quad |\cdot 6$$

$$x = \sin(35°) \cdot 6$$

$$x = 3{,}441\ldots \approx 3{,}4$$



$$\cos(55°) = \frac{x}{6{,}0} \quad |\cdot 6{,}0$$

$$x = 6{,}0 \cdot \cos(55°)$$

$$x = 3{,}441\ldots \approx 3{,}4$$

$$\tan(60°) = \frac{11,0}{x} \qquad \cdot x$$

$$x \cdot \tan(60°) = 11,0 \qquad : \tan(60°)$$

$$x = \frac{11,0}{\tan(60°)}$$

$$x = 6,3508\ldots \approx 6,4$$

Kotitehtävät: 212, 213 s. 57