

Merkitseen kulmaa kirjaimella a:

$$\text{solve}\left(\tan(a)=\frac{5}{\sqrt{11}},a\right)|0<a<90 \blacktriangleright a=56.4427$$

Vastaus: 56,4 astetta.

1.

Kosinilause (+1p):

$$\text{solve}\left((2.1)^2=4^2+x^2-2\cdot 4\cdot x\cdot \cos(28),x\right) \blacktriangleright x=2.59182 \text{ or } x=4.47176$$

(+2p)

Kuvan perusteella $x<4$, joten vastaus: 2,6 (+1).

2.

Kosinilause (+1p):

$$\text{solve}\left((4.3)^2=4^2+(3.2)^2-2\cdot 4\cdot 3.2\cdot \cos(a),a\right)|0<a<90 \blacktriangleright a=72.3781$$

(+2p)

$$A=\frac{1}{2}\cdot 3.2\cdot 4\cdot \sin(72.3781) \blacktriangleright 6.09968 \text{ (+1p)}$$

3.