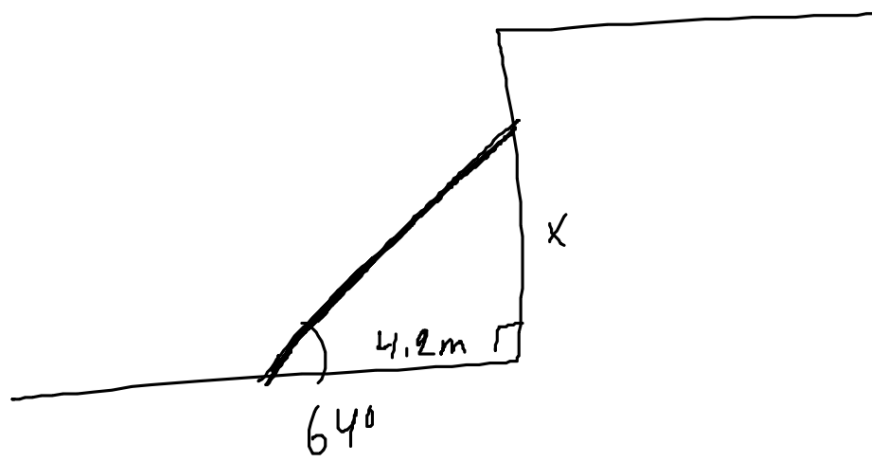


191.

5.91



$$\tan 64^\circ = \frac{x}{4,2}$$

laskin

$$\frac{2,0503}{1} = \frac{x}{4,2}$$

$$x = 2,0503 \cdot 4,2 = 8,61128$$

V: n. 8,6 m

Monikulmiot

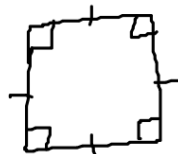
- nimitään kärkien lukun mukaan
- pieni kolmio:



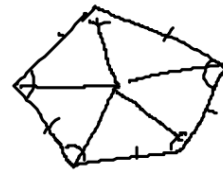
- säännöllinen monikulmio: kaikki kulmat ja sivut yhtäsuuria



tasasiv. kolmio



neliö

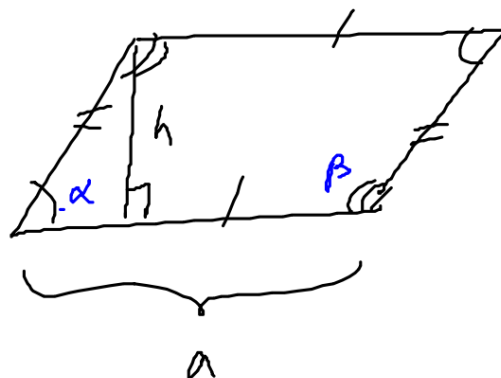


↑ voidaan jakaa
samanlaisiksi kolm

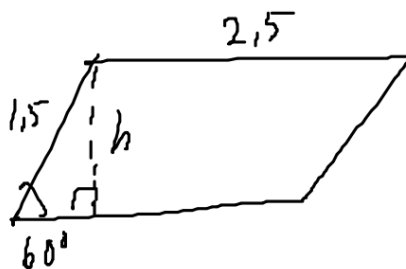
- Suunnikas

$$A = ah$$

$$\alpha + \beta = 180^\circ$$



Esim.



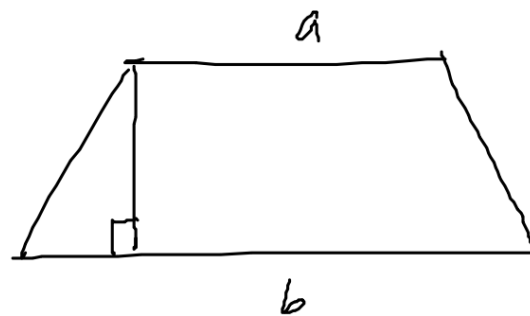
Laske suunnikkaan ala.

$$\sin 60^\circ = \frac{h}{1,5}$$

$$h = 1,5 \cdot \sin 60^\circ = 1,299$$

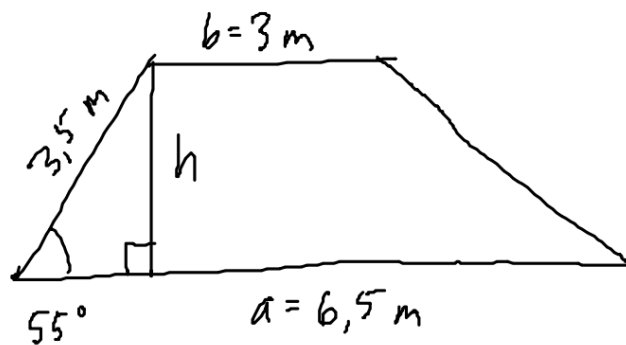
$$A = 1,299 \cdot 2,5 \approx 3,2$$

— puolisuunnikas : kaksi yhdens. sivua



$$A = \frac{a+b}{2} \cdot h$$

Esim.



$$\frac{\sin 55^\circ}{1} = \frac{h}{3,5}$$

$$h = 3,5 \cdot \sin 55^\circ = 2,8670$$

$$A = \frac{(6,5+3)}{2} \cdot 2,8670 \text{ m}^2 \approx 13,6 \text{ m}^2$$

— säännöll. monik.

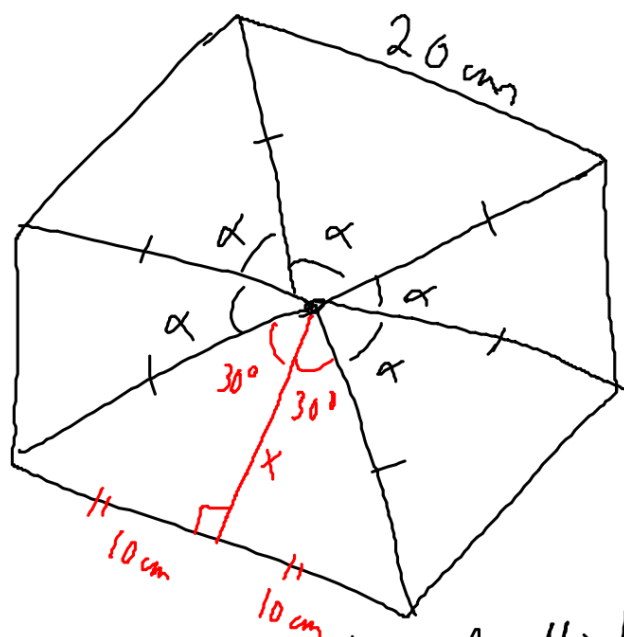
S.101: 202, 203

210

214,

Sarja 2

$V: n. 1040 \text{ cm}^3$



$$\alpha = \frac{360^\circ}{6} = 60^\circ$$

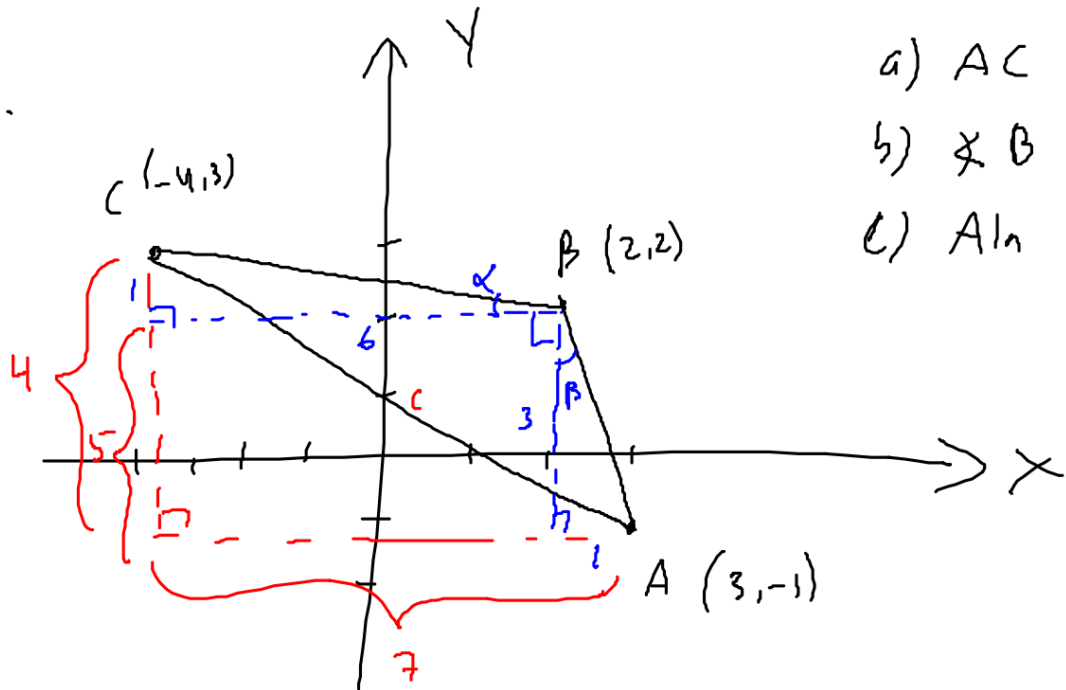
6 tasasylisestä, identtistä kolmiota

$$\rightarrow A = 6 \cdot A_{\text{kolmio}}$$

1. Ratk. ensin x : $\tan 30^\circ = \frac{10}{x} \rightarrow x = 17,3205$

2. $A_{\text{kolmio}} = \frac{20 \cdot 17,3205}{2} = 173,205$ 3. $A = 6 \cdot 173,205 = 1039,23$

226.



- a) AC pituus
- b) $\angle B$
- c) A_{in}

$$a) 4^2 + 7^2 = c^2$$

$$16 + 49 = c^2$$

$$c = \sqrt{65}$$

$$b) \tan \alpha = \frac{1}{6} \rightarrow \alpha = \tan^{-1}\left(\frac{1}{6}\right) = 9,462^\circ$$

$$\tan \beta = \frac{1}{3} \rightarrow \beta = \tan^{-1}\left(\frac{1}{3}\right) = 18,435^\circ$$

$$\angle B = \alpha + \beta + 90^\circ = 114,897^\circ \approx \underline{115^\circ}$$

c) Kaksi sinistä kolmiota + pnn. nelik.

$$\frac{1 \cdot 6}{2} + \frac{1 \cdot 3}{2} + 5 \cdot 7 = 39,5$$



