Rešitve nalog enakokrakega trapeza:

1. **Naloga**

a) **$\beta' = 124^o$** $\beta = 180^o - 124^o = 56^o$ $56^o + 56^o = 112^o$ $360^o - 112^o = 248^o$

$248^o : 2 = 124^o$

$\alpha = \beta = 56^o$ **$\gamma = \delta = 124^o$**

b)

$\delta = \gamma = 72^o$ $72^o + 72^o = 144^o$ $360^o - 144^o = 216^o$ 216o

$\alpha = \beta = 108^o$

2. **Naloga:**

Dan je kot v enakokrakem trapezu. Določi velikosti preostalih treh kotov.

a) $\alpha = 36^o$

b) $\delta = 51^o$

a)

$\alpha = \beta = 36^o$ $36^o + 36^o = 72^o$ $360^o - 72^o = 288^o$ $288^o : 2 = 144^o$

$\delta = \gamma = 144^o$

b) **$\delta = \gamma = 51^o$** $51^o + 51^o = 102^o$ $360^o - 102^o = 258^o$ $258^o : 2 = 129^o$

$\alpha = \beta = 129^o$

Sedaj pa še sam nariši enakokraki trapez s podatki:

c = 3 cm

d = 4 cm

f = 6 cm

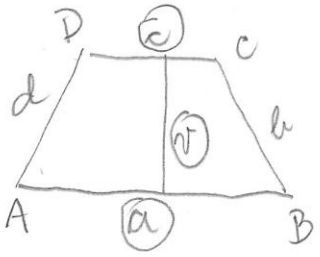
Potek reševanja najdeš v učbeniku REŠENI PRIMERI, stran 143, naloga 3.

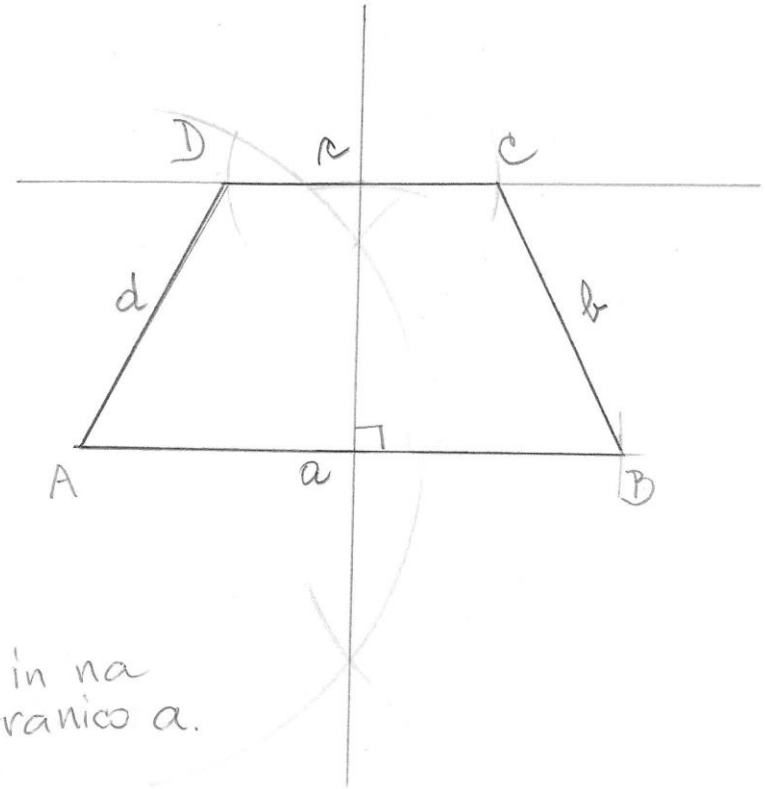
Odgovor na vprašanje:

Za načrtovanje enakokrakega trapeza potrebujemo samo 3 podatke zato, ker sta po dva kota enaka in dolžina stranic b in d sta enako dolgi.

Sedaj pa še sam nariši enakokraki trapez s podatki:

$a = 8cm$
$v = 4cm$
$c = 4cm$





1. korak -
narišemo premico in na njej odmerimo stranico a.

2. korak
narišemo simetralo stranice a

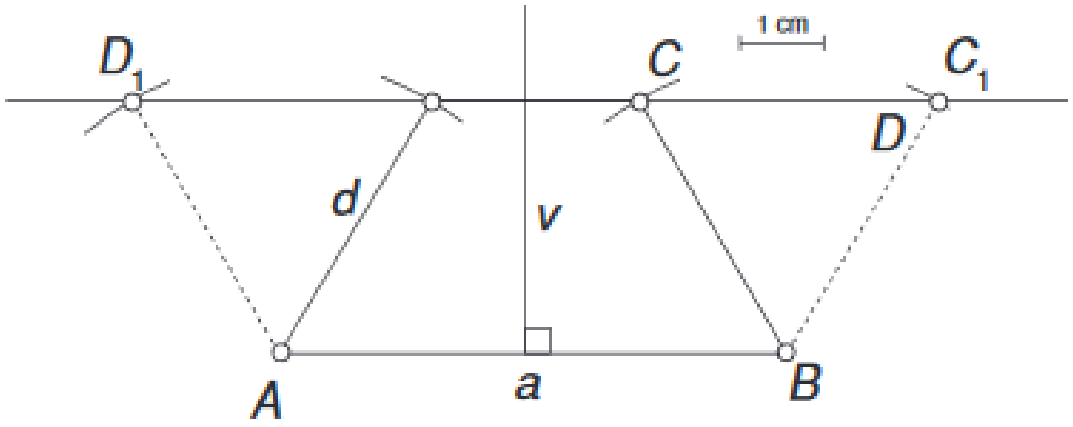
3. korak
na simetrali odmerimo višino

4. korak
narišemo vzporednico stranici a

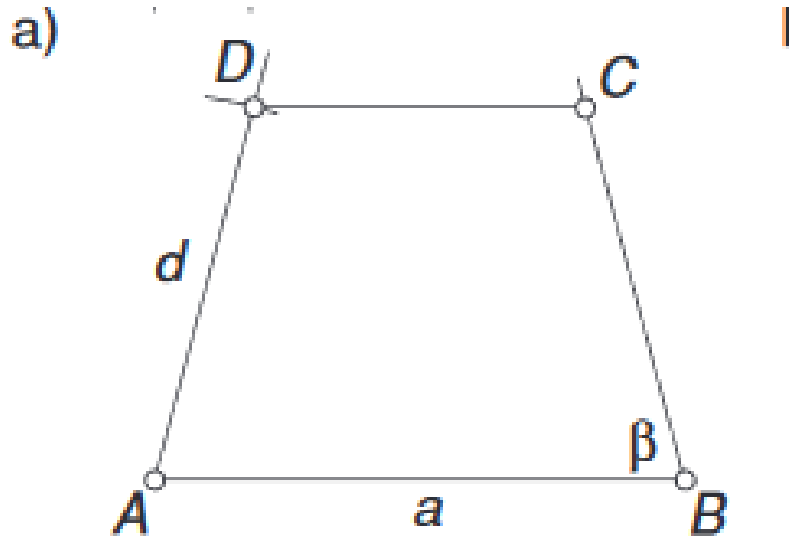
5. korak
na vsako stran simetrale odmerimo polovico stranice c (2cm) in označimo oglišča C in D

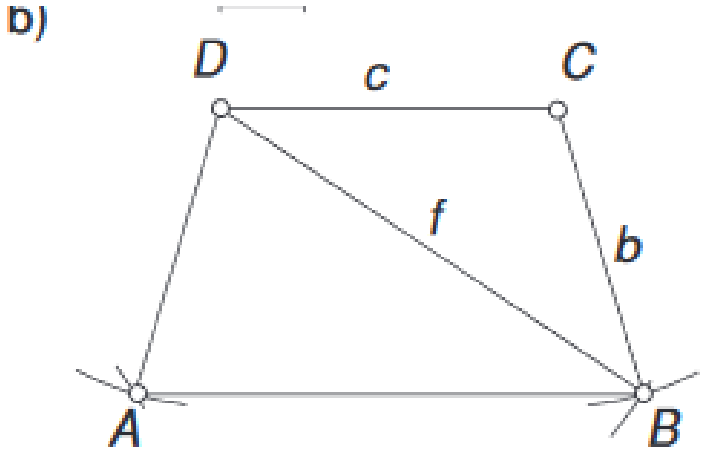
6. korak
povežemo s stranicama b in d

nato pa še v učbeniku na strani 144, nalogo 4 č



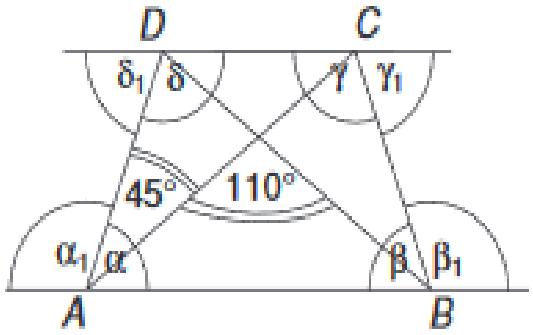
Učbenik, stran 144, naloga 4 a, d;





ZMOREM TUDI TO: naloge 7, 8, 9;

7



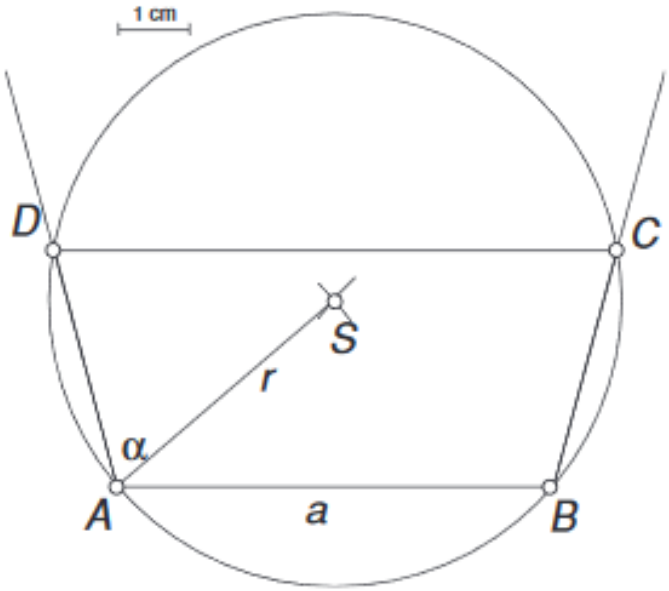
$\alpha = 80°$ $\quad \alpha_1 = 100°$

$\beta = 80°$ $\quad \beta_1 = 100°$

$\gamma = 100°$ $\quad \gamma_1 = 80°$

$\delta = 100°$ $\quad \delta_1 = 80°$

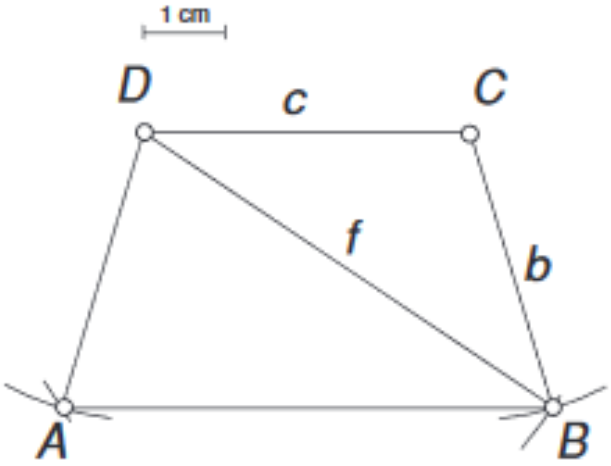
8



9 $\alpha = 75°, \beta = 75°, \gamma = 105°, \delta = 105°$

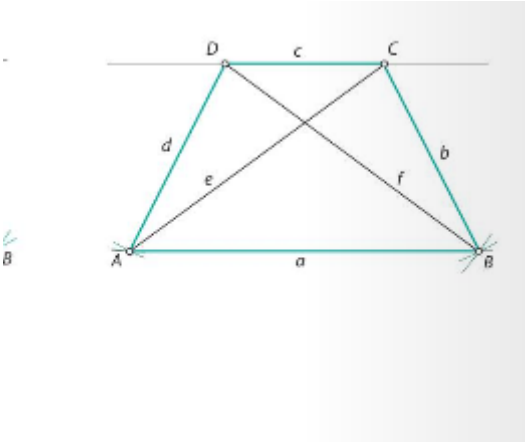
Učbenik, stran 144, naloga 4 b

b)



Silvester je izjavil: »Diagonali trapeza sta skladni.«

a) Nariši trapez, za katerega bo Silvestrova izjava veljala.



b) Nariši trapez, za katerega Silvestrova izjava ne bo veljala