



**\*3.) Določi neznane kote! Pomagaj si s skico!**

a)  $\Delta ABC$  :

$\alpha_1 = 120^\circ$

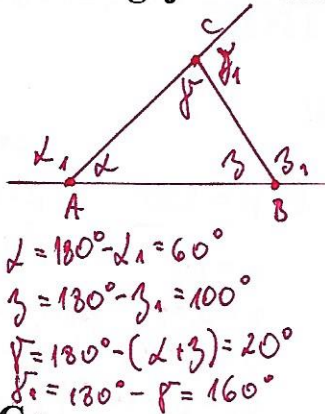
$\beta_1 = 80^\circ$

$\alpha = 60^\circ$

$\beta = 100^\circ$

$\gamma = 20^\circ$

$\gamma_1 = 160^\circ$



b) Enakokraki  $\Delta ABC$  :

(C je vrh)

$\gamma = 47^\circ 20'$

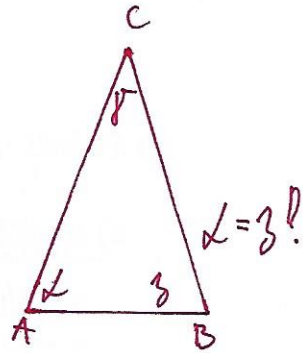
$\alpha = 66^\circ 20'$

$\beta = \alpha!$

$\alpha = (180 - \gamma) : 2$

$\alpha = 132^\circ 40' : 2$

$\alpha = 66^\circ 20'$



c) Pravokotni  $\Delta ABC$  :

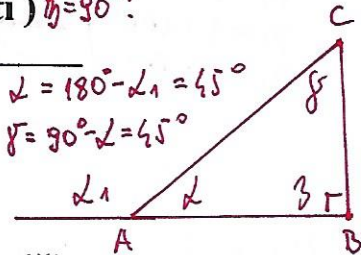
(a in c sta kateti)  $\gamma = 90^\circ!$

$\alpha_1 = 135^\circ$

$\alpha = 45^\circ$

$\beta = 90^\circ$

$\gamma = 45^\circ$



č)  $\beta = 30^\circ$

$\alpha = 90^\circ$

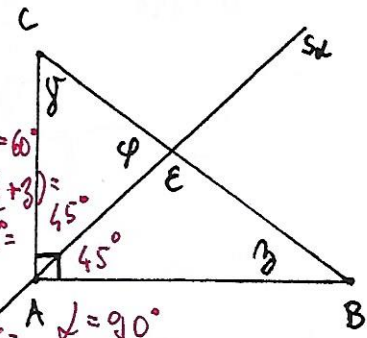
$\gamma = 60^\circ$

$\epsilon = 105^\circ$

$\varphi = 75^\circ$

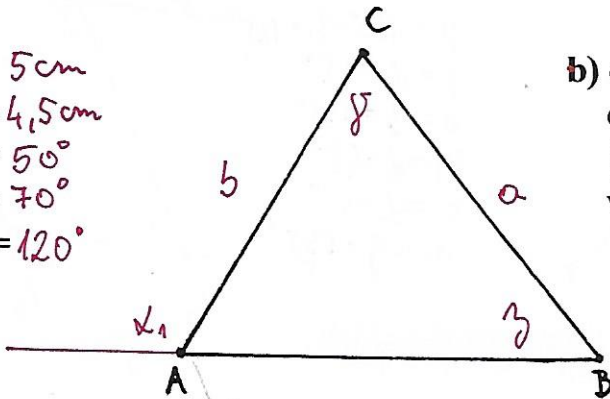
$\gamma = 90 - \beta = 60$   
 $\epsilon = 180 - (\frac{1}{2}\alpha + \beta) = 180 - 75 = 105$

$\varphi = 180 - \epsilon = 75$   
 $\varphi = 180 - 105 = 75$

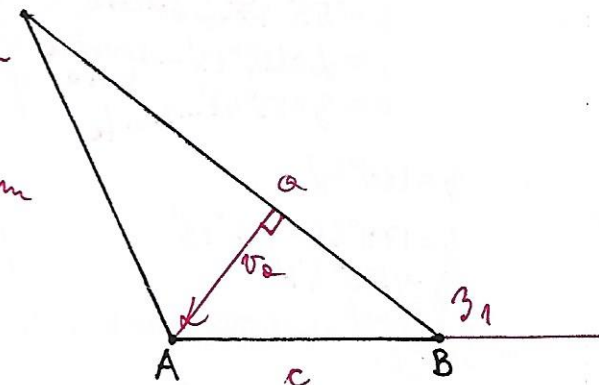


**4.) Izmeri zahtevane količine!**

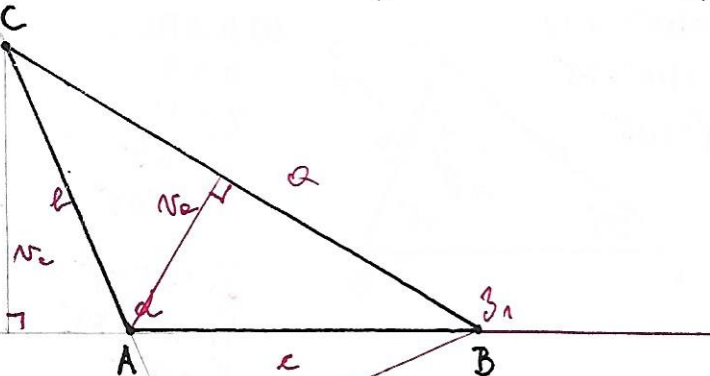
- a)  $a = 5\text{cm}$
- $b = 4,5\text{cm}$
- $\beta = 50^\circ$
- $\gamma = 70^\circ$
- $\alpha_1 = 120^\circ$



- b)  $c = 3,5\text{cm}$
- $\alpha = 115^\circ$
- $\beta_1 = 143^\circ$
- $v_a = 2,2\text{cm}$



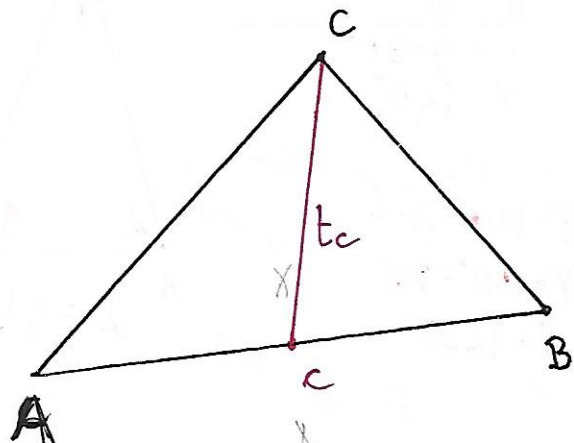
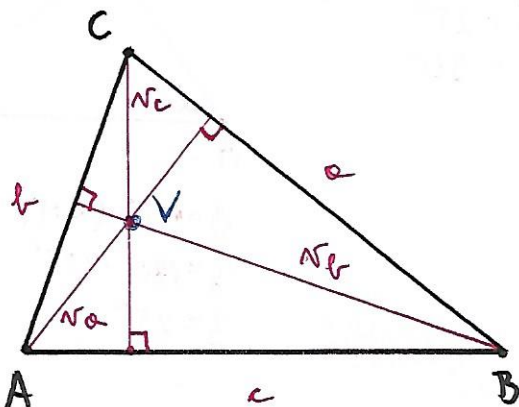
- \* c)  $\alpha = 114^\circ$
- $\beta_1 = 150^\circ$
- $v_a = 2,3\text{cm}$
- $v_b = 4,2\text{cm}$
- $v_c = 3,7\text{cm}$



**5.) Trikotniku nariši :**

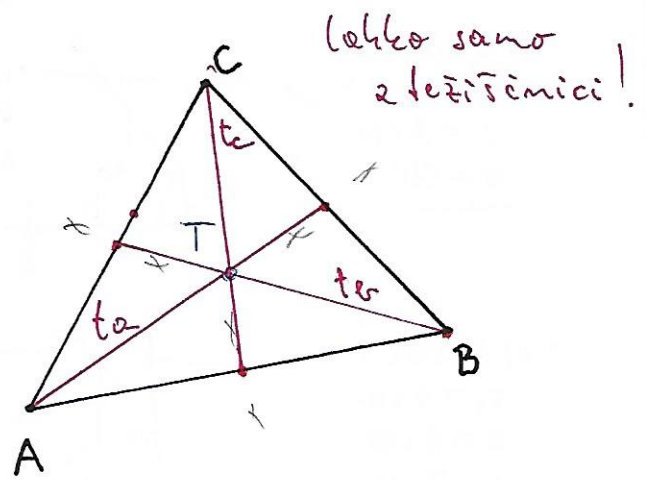
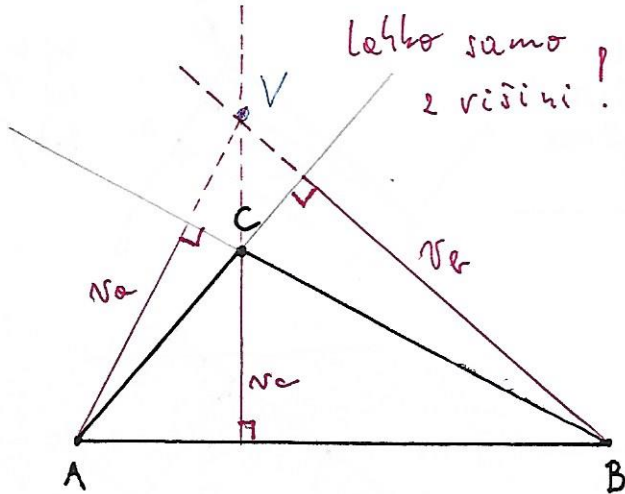
a) vse tri višine ( $v_a, v_b, v_c$ ) in označi višinsko točko V!

b) težiščnico  $t_c$ !



\* c) višinsko točko V!

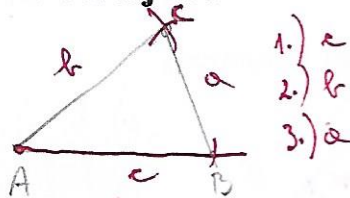
\* č) težišče T!



6.) Nariši trikotnik po danih podatkih! Pomagaj si s skico, sestavi načrt za delo oziroma potek dela!

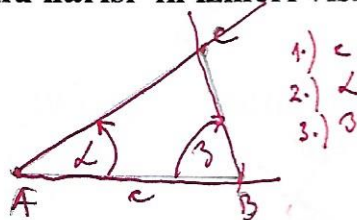
- a)  $\Delta ABC$  :  
 $a = 4 \text{ cm}$   
 $b = 5 \text{ cm}$   
 $c = 7 \text{ cm}$

in mu očrtaj krožnico!



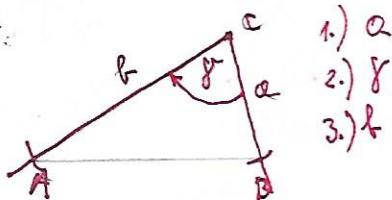
- b)  $\Delta ABC$  :  
 $c = 6,5 \text{ cm}$   
 $\alpha = 30^\circ$   
 $\beta = 75^\circ$   
 $v_c = 3,3 \text{ cm}$

in mu nariši in izmeri višino na c!



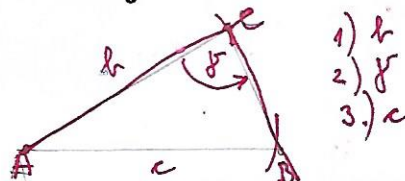
- c)  $\Delta ABC$  :  
 $a = 6 \text{ cm}$   
 $b = 4 \text{ cm}$   
 $\gamma = 50^\circ$   
 $v_a = 3,1 \text{ cm}$

in mu nariši in izmeri višino na a!



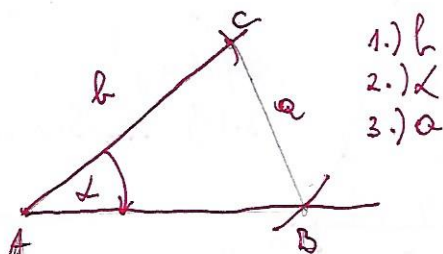
- \* č)  $\Delta ABC$  :  
 $b = 4,5 \text{ cm}$   
 $c = 6,5 \text{ cm}$   
 $\gamma = 55^\circ$

in mu včrtaj krožnico!

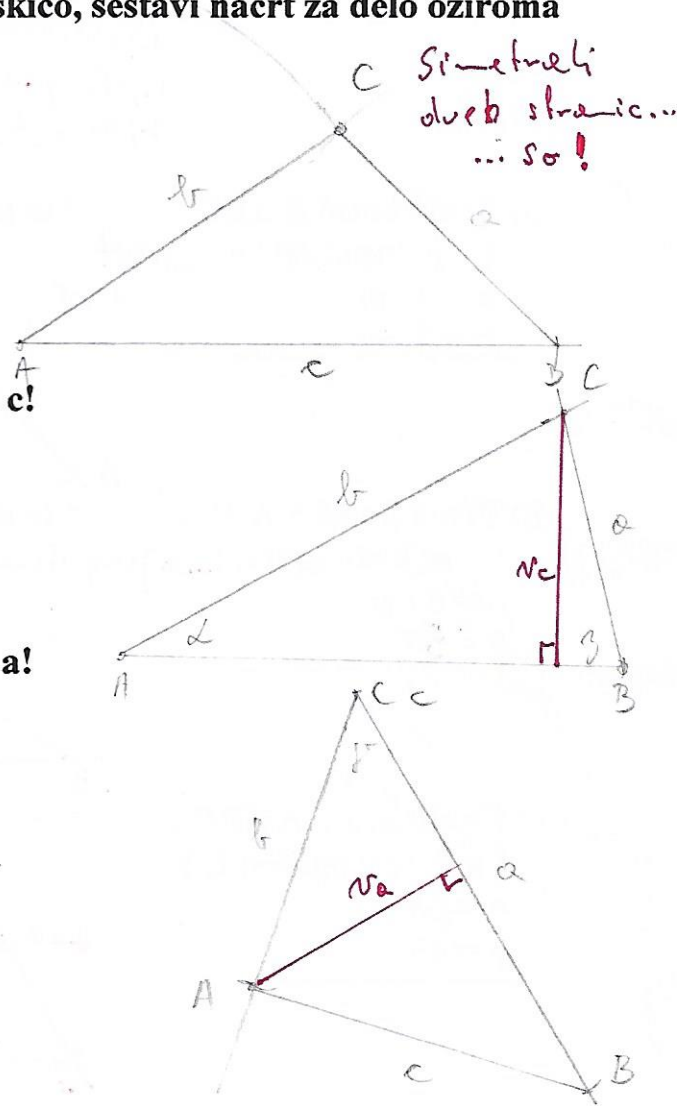


- \* d)  $\Delta ABC$  :  
 $a = 4,5 \text{ cm}$   
 $b = 7 \text{ cm}$   
 $\alpha = 35^\circ$   
 $v_c = 4 \text{ cm}$

in mu nariši in izmeri višino na c!



2 REŠITVI!



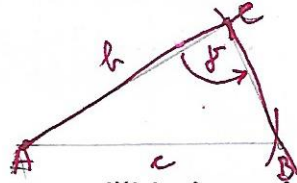
\* č)  $\Delta ABC$  :

$b = 4,5 \text{ cm}$

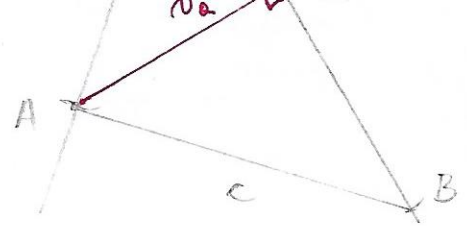
$c = 6,5 \text{ cm}$

$\gamma = 55^\circ$

in mu včrtaj krožnico!



- 1.)  $h$
- 2.)  $\alpha$
- 3.)  $c$



\* d)  $\Delta ABC$  :

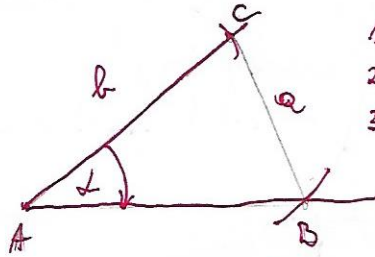
$a = 4,5 \text{ cm}$

$b = 7 \text{ cm}$

$\alpha = 35^\circ$

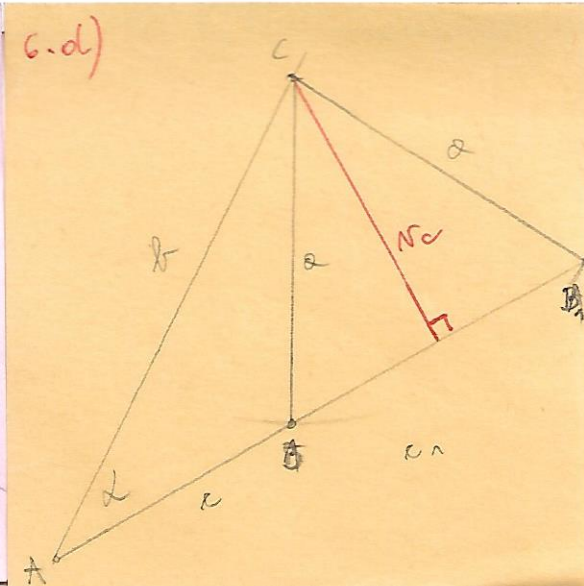
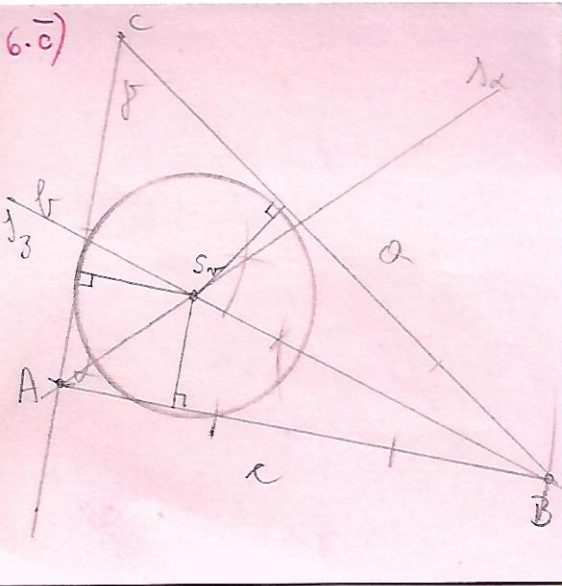
$v_c = 4 \text{ cm}$

in mu nariši in izmeri višino na c!



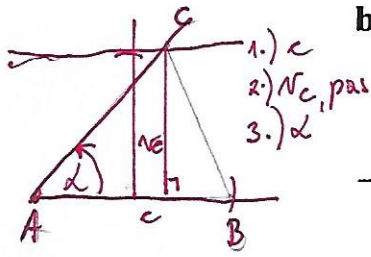
- 1.)  $h$
- 2.)  $\alpha$
- 3.)  $a$

2 REŠITVI!

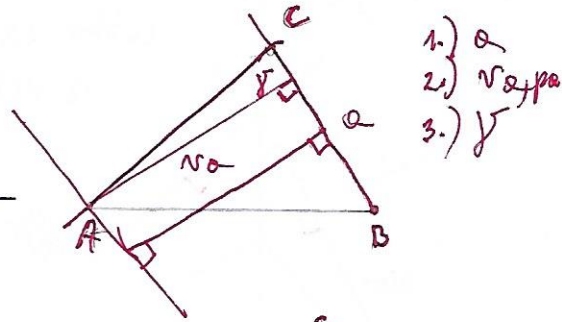


7.) Upoštevaj podatke in načrtaj trikotnik! Skica, potek dela, načrt za delo!

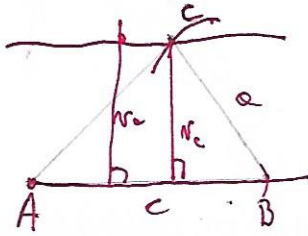
a)  $\Delta ABC$  :  
 $c = 6 \text{ cm}$   
 $v_c = 3 \text{ cm}$   
 $\alpha = 50^\circ$



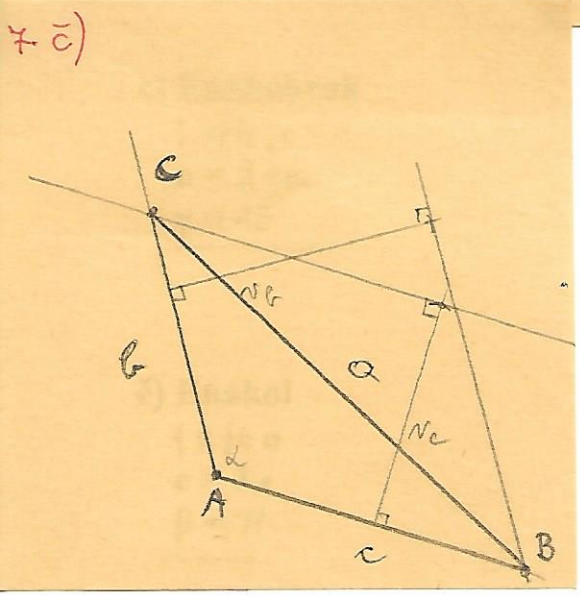
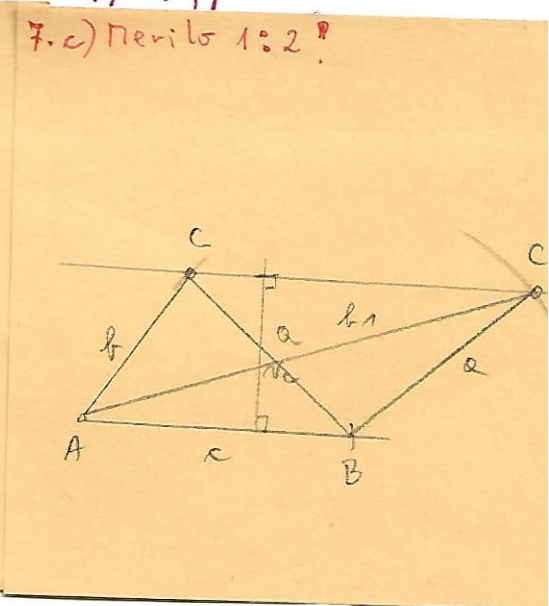
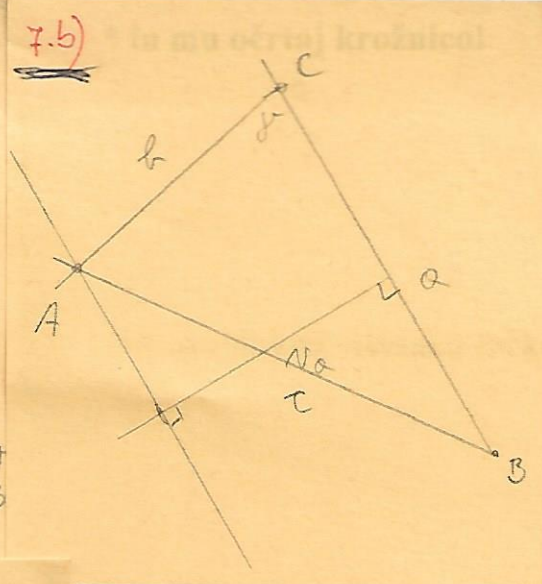
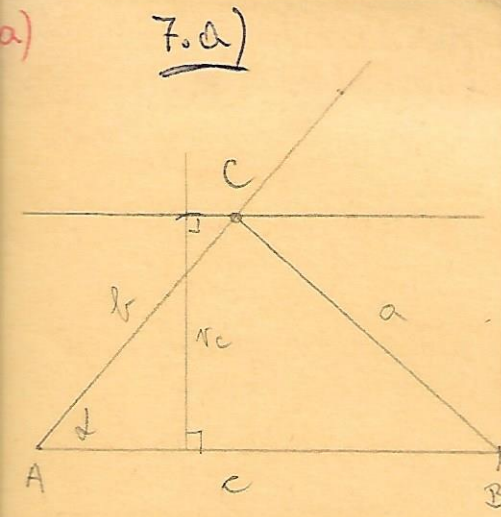
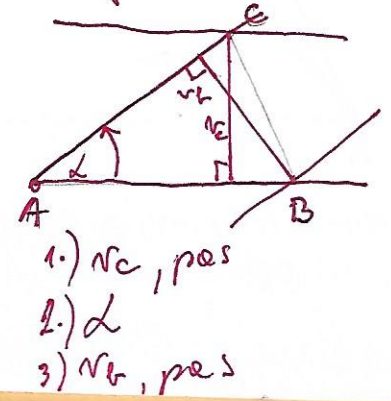
b)  $\Delta ABC$  :  
 $a = 5,5 \text{ cm}$   
 $v_a = 3,5 \text{ cm}$   
 $\gamma = 80^\circ$



\* c)  $\Delta ABC$  :  
 $v_c = 4 \text{ cm}$   
 $a = 6 \text{ cm}$   
 $c = 7 \text{ cm}$



\* č)  $\Delta ABC$  :  
 $v_c = 3 \text{ cm}$   
 $v_b = 3,5 \text{ cm}$   
 $\alpha = 120^\circ$



8.) Nariši!

2.)  $N_c$ , pas  
3.)  $a \dots 2 R \sin \gamma$ !

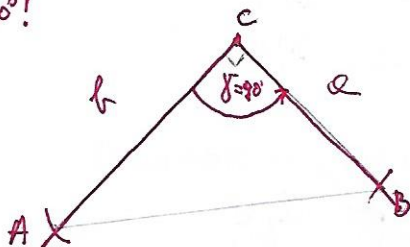
1.)  $\alpha$   
3.)  $N_b$ , pas

a) Pravokotni  $\Delta ABC$  : \* in mu očrtaj krožnico!

( c je hipotenuza ) ...  $\gamma = 90^\circ$ !

a = 4 cm

b = 3 cm



1.)  $b$   
2.)  $\gamma = 90^\circ$   
3.)  $a \dots$

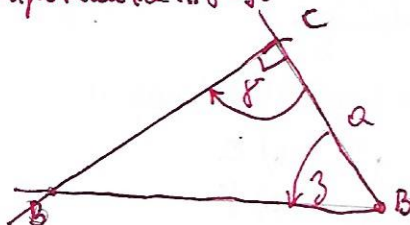
So... simetrični dve stranic!  
So... na sredini hipotenuze!

b) Pravokotni  $\Delta ABC$  : \* in mu določi višinsko točko V!

( a in b sta kateti ) ... c je hipotenuza ...  $\gamma = 90^\circ$

a = 5 cm

$\beta = 50^\circ$



1.)  $a$   
2.)  $\gamma = 90^\circ$

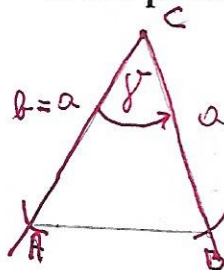
3.)  $\beta \dots V$  je v oglišču C, kjer je pravil kot!

c) Enakokraki  $\Delta ABC$  : \* in mu poišči težišče T!

( vrh je v oglišču C )

a = 5 cm

$\gamma = 45^\circ$



1.)  $b = a$   
2.)  $\gamma$   
3.)  $a \dots$

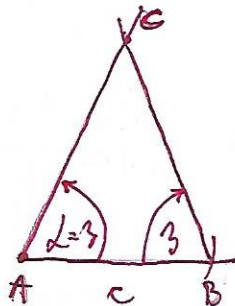
vseaj 2 težiščnici ...  $t_c = N_c$ !

č) Enakokraki  $\Delta ABC$  : \* in mu včrtaj krožnico!

( c je osnovnica )

c = 3 cm

$\beta = 75^\circ$



1.)  $c$   
2.)  $\alpha = \beta$ !  
3.)  $\beta \dots$

So... simetrični 2 notranji kotovi ...  $\gamma = N_c$

