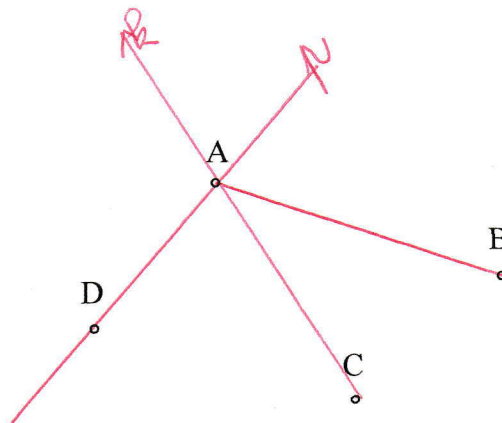


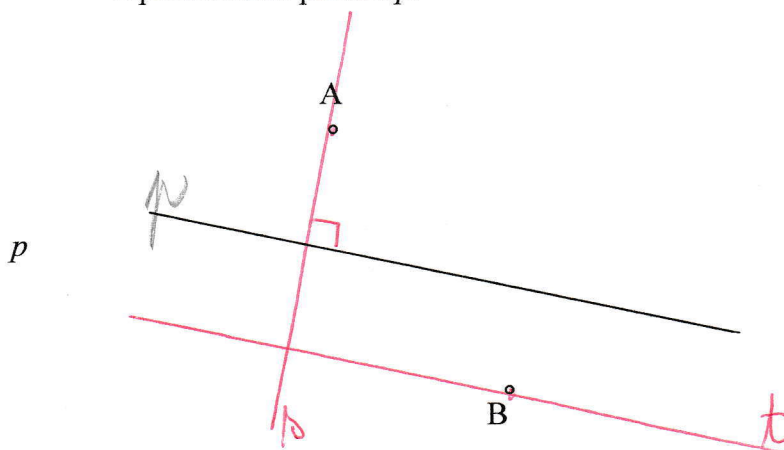
Preveri svoje znanje

(osnovni geometrijski pojmi in koti)

1. Na sliki so točke A, B, C in D.
 - a) Nariši daljico AB.
 - b) Skozi točki A in D nariši premico p .
 - c) Nariši poltrak k z izhodiščem C tako, da bo veljalo: $A \in k$.



2. Skozi točko A nariši pravokotnico na premico p in jo poimenuj s . Skozi točko B nariši vzporednico t premici p .



DOPOLNI:

$$p \perp s$$

$$t \parallel p$$

$$A \in s$$

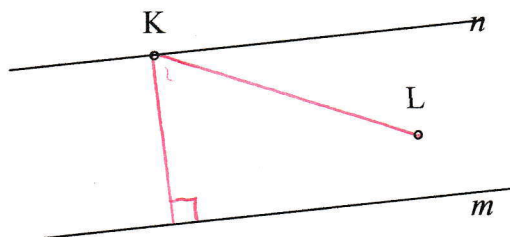
$$B \notin s$$

3. Oglej si sliko in nariši, izmeri ter zapiši naslednje razdalje:

$$d(K, L) = \underline{3,7 \text{ cm}}$$

$$d(K, m) = \underline{2,2 \text{ cm}}$$

$$d(K, n) = \underline{0 \text{ cm}}$$



4. Maja je zaspala ob 21.30, zjutraj se je zbudila ob 7.10. Koliko časa je spala?

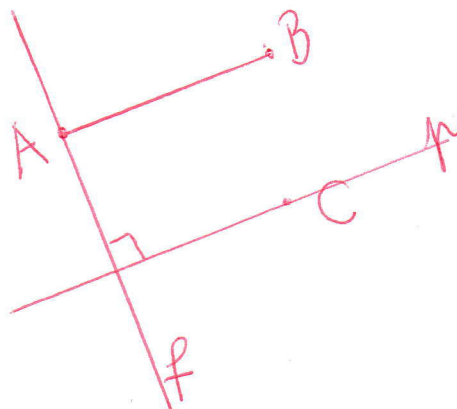
$$\begin{array}{r}
 24 \text{ h } 00 \text{ min} \\
 - 21 \text{ h } 30 \text{ min} \\
 \hline
 2 \text{ h } 30 \text{ min}
 \end{array}
 \quad \rightarrow \quad
 \begin{array}{r}
 23 \text{ h } 60 \text{ min} \\
 - 21 \text{ h } 30 \text{ min} \\
 \hline
 2 \text{ h } 30 \text{ min}
 \end{array}
 \quad + \quad
 \begin{array}{r}
 2 \text{ h } 30 \text{ min} \\
 + 7 \text{ h } 10 \text{ min} \\
 \hline
 9 \text{ h } 40 \text{ min}
 \end{array}$$

Odgovor: Spala je 9 ur in 40 minut.

5. Nariši v eni sliki:

- a) daljico AB , $|AB| = 3 \text{ cm}$,
- b) točko C , $C \notin AB$,
- c) premico p , $C \in p$ in $p \parallel AB$,
- č) premico f , $A \in f$ in $f \perp p$.

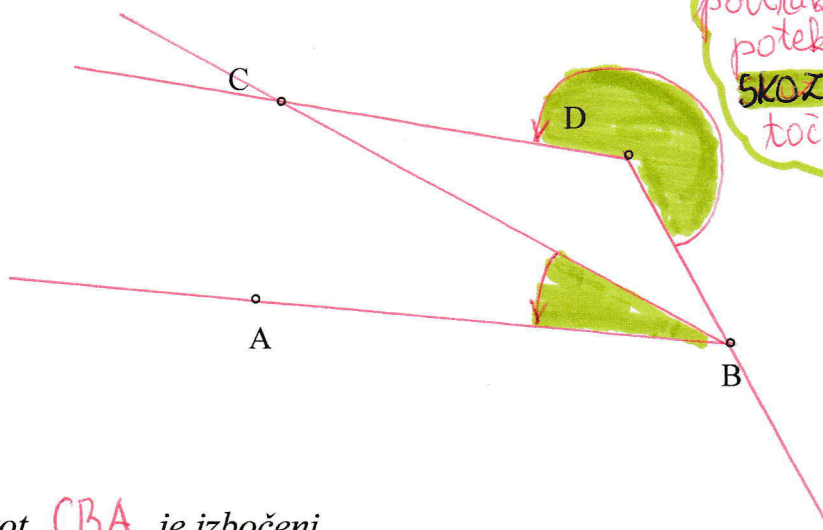
SLIKA:



6. V ravnini so dane točke A, B, C in D. Nariši in pobarvaj kota:

$\alpha = \sphericalangle CBA$
 $\beta = \sphericalangle BDC$

vrtenje od
prve točke
proti drugi



poltrak kota
poteka od vrha
SKOZI drugo
točko...

DOPOLNI:

Kot BDC je vdrti, kot CBA je izbočeni.

7. Pretvori!

a) $17^\circ = \underline{1020}'$

b) $24^\circ 32' = \underline{1472}'$

c) $1782' = \underline{29}^\circ \underline{42}'$

RAČUNI:

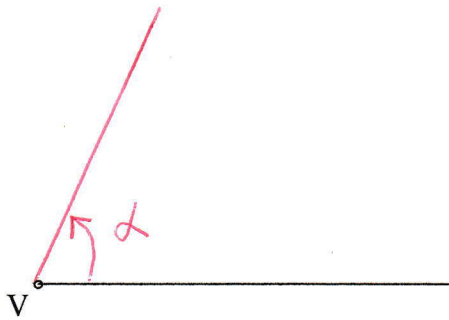
$$\begin{array}{r} 17 \cdot 60 \\ \hline 1020 \end{array}$$

$$\begin{array}{r} 24 \cdot 60 \\ \hline 1440 \\ 32 \\ \hline 1472 \end{array}$$

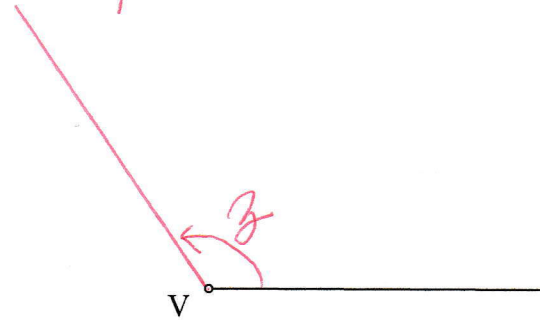
$$\begin{array}{r} 1782 : 60 = 29 \\ 582 \\ 42 \text{ ost.} \end{array}$$

8. Nariši kota! Določi vrsto kota in zapiši na črto poleg kota! Upoštevaj narisana kraka!

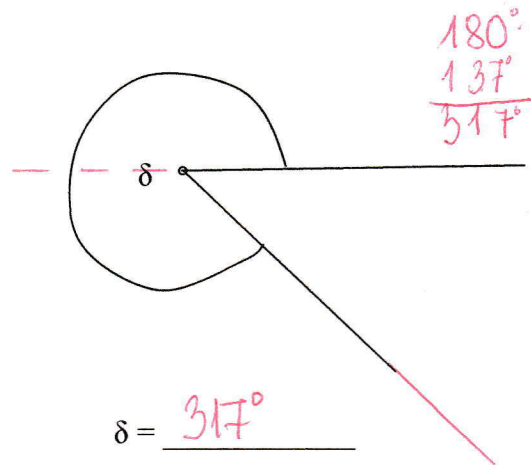
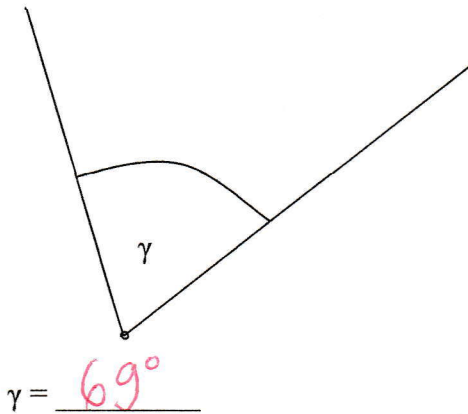
$\alpha = 65^\circ$ ostri kot



b) $\beta = 130^\circ$ topi kot



9. Izmeri kota γ in δ .

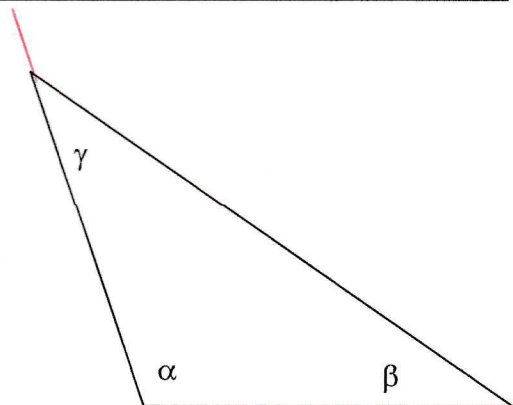


10. Izmeri in zapiši velikost kotov trikotnika na sliki.

$\alpha = 109^\circ$

$\beta = 35^\circ$

$\gamma = 36^\circ$



11. Izračunaj:

a) $89^\circ 33' + 18^\circ 49' = 108^\circ 22'$

b) $165^\circ 15' - 64^\circ 37' = 80^\circ 38'$

RAČUNI:

Handwritten calculations for problem 11b:

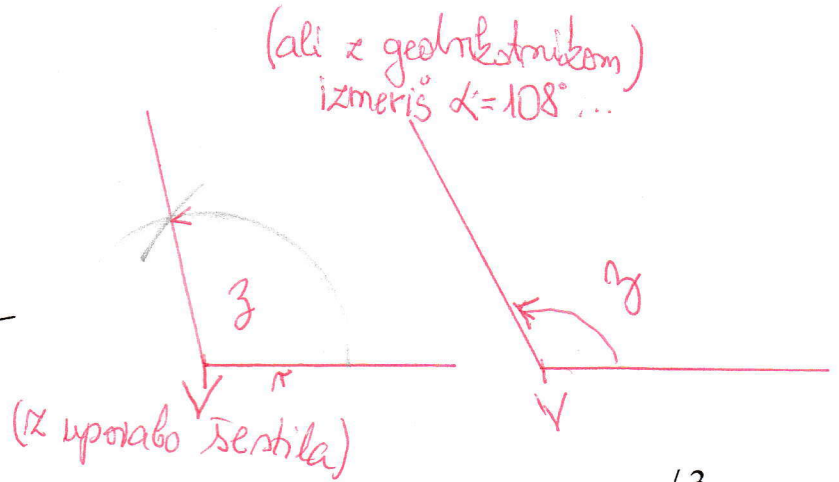
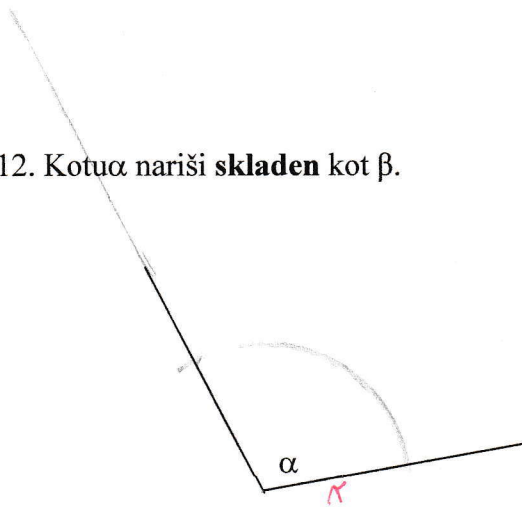
$$\begin{array}{r} 89^\circ 33' \\ 18^\circ 49' \\ \hline 107^\circ 82' \\ = 108^\circ 22' \end{array}$$

ODVZEMAJ 1°

$$\begin{array}{r} 165^\circ 15' \\ - 64^\circ 37' \\ \hline 144^\circ 75' \\ - 64^\circ 37' \\ \hline 80^\circ 38' \end{array}$$

PRETVORI

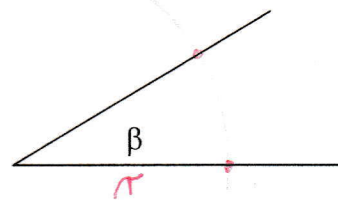
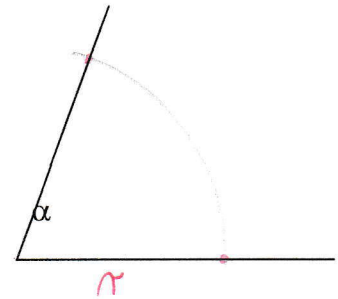
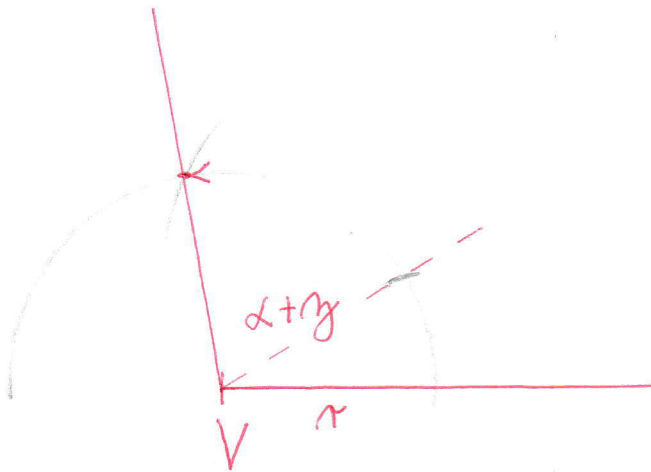
12. Kotu α nariši **skladen** kot β .



/ 3

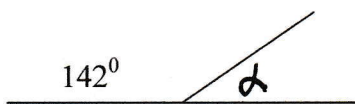
13. Dana sta kota α in β . Nariši s šestilom :

a) $\alpha + \beta$



14. **Izračunaj** neznane kote na skicah (**ne meri**, ker koti na skicah niso v pravi velikosti)!

a)

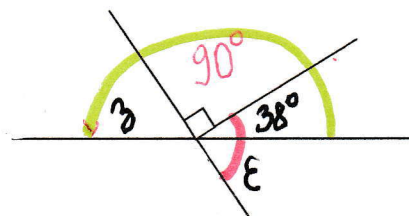


Reševanje:

$$\begin{array}{r} 180^\circ \\ - 142^\circ \\ \hline 38^\circ \end{array}$$

$\alpha = \underline{38^\circ}$

b)



Reševanje:

$$\begin{array}{ll} 38^\circ + 90^\circ = 128^\circ & \epsilon + 38^\circ = 90^\circ \\ 180^\circ - 128^\circ = 52^\circ & \epsilon = 90^\circ - 38^\circ = 52^\circ \end{array}$$

$\beta = \underline{52^\circ}$, $\epsilon = \underline{52^\circ}$