

Sreda, 31.3.2020

Danes boš utrdil znanje o osnovnih pojmi v prizmah.

1) Preglej rešitve in popravi napake.

1a) $\alpha = 90^\circ$
 $\beta = 30^\circ$
 $\gamma = 60^\circ$

$\beta' = 30^\circ$
 $\gamma' = 60^\circ$
 $\Rightarrow \alpha' = 90^\circ$

$\Rightarrow k = \frac{\beta'}{\beta} = 1$

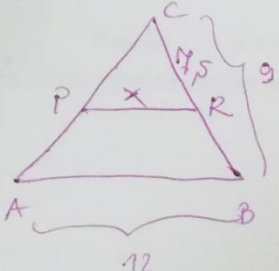
$k = \text{povsed enake}$
 Δ sta si podobna

b) $\beta = 90^\circ$
 $\gamma = 55^\circ$
 $\alpha = 35^\circ$

$\alpha' = 40^\circ$
 $\gamma' = 55^\circ$
 $\beta' = 85^\circ$

$k = \frac{\gamma'}{\gamma} = 1$
 $k = \frac{\alpha'}{\alpha} = \frac{40}{30} = \frac{4}{3}$ *različni koef.*
 $k = \frac{\beta'}{\beta} = \frac{85}{90} = \frac{17}{18}$ *NISTA SI PODOBNA*

2)



$12 : x = 9 : 7,5$
 $9x = 12 \cdot 7,5$
 $9x = 90 : 9$
 $x = 10 \text{ cm}$

3)

$\triangle ABC$
 $a = 17 \text{ cm}$
 $b = 23 \text{ cm}$
 $c = 35 \text{ cm}$

$\triangle A'B'C'$
 $a' = 68 \text{ cm}$
 $b' = k \cdot b = 4 \cdot 23 = 92 \text{ cm}$
 $c' = k \cdot c = 4 \cdot 35 = 140 \text{ cm}$

$k = \frac{a'}{a} = \frac{68}{17} = 4$

4) št. mreč. ... tria (kg)

$\downarrow 60 \dots 50 \uparrow$
 $x \dots 75$

$60 : x = 75 : 50$
 $75x = 50 \cdot 60$
 $x = 3000 : 75$
 $x = 40$

Potreboval bi 40 mreč.

5) št. nitgajev ... čas (s)

$\downarrow 3000 \dots 60 \downarrow$
 $x \dots 17$

$3000 : x = 60 : 17$
 $60x = 3000 \cdot 17$
 $x = 51000 : 60$
 $x = 850$

Zavrti se 850 krat v 17 min sekundah.

2) Reši naloge iz U str. 147/ nal. 2 – 7 ali <https://folio.rokus-klett.si/?credit=SSIO9UC-prenova-2013&pages=146-147>

Pri tretji nalogi moraš izračunati obseg prizme. Pri tem upoštevaj, da je obseg vsota vseh robov.

Pri delu si pomagaj s svojim plonkom ☺.