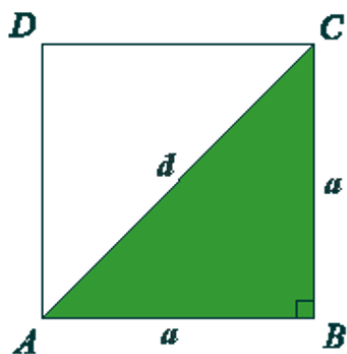


## PITAGOROV IZREK v KVADRATU

- Preriši in prepriši:



KVADRAT

$$o = 4a$$

$$p = a^2$$

$$d = a\sqrt{2}$$

$$a = \frac{d}{\sqrt{2}}$$

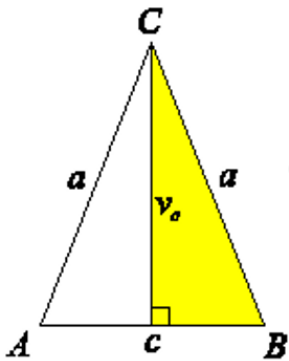
- Oglej si posnetek <https://www.youtube.com/watch?v=Of00zr82k8c>

in v zvezek zapiši celotno učno snov, ki je razložena v posnetku. Potrudi se razumeti vso razlago in se pri vajah iz učbenika drži oblike zapisa, ki jo uporablja učiteljica na posnetku.

- Reši naloge iz učbenika, stran 186, nal. 2ač, 4ac, 6\*, 7\*. (naloge z zvezdico rešijo samo boljši učenci).
- Preveri rešitve, ki so spodaj.

## PITAGOROV IZREK v ENAKOKRAKEM TRIKOTNIKU

- Preriši in prepisi:



ENAKOKRAKI TRIKOTNIK

$$o = 2a + c$$

$$p = \frac{c \cdot v_c}{2}$$

$$a^2 = v_c^2 + \left(\frac{c}{2}\right)^2$$

$$v_c^2 = a^2 - \left(\frac{c}{2}\right)^2$$

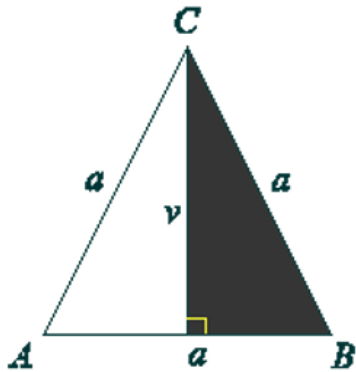
- Oglejte si posnetek <https://www.youtube.com/watch?v=j97DyiEhtE>

in v zvezek zapiši celotno učno snov, ki je razložena v posnetku. Potrudi se razumeti vso razlago in se pri vajah iz učbenika drži oblike zapisa, ki jo uporablja učiteljica na posnetku.

- Reši naloge iz učbenika, stran 190, nal. 1abd, 4\*, 5\*. (naloge z zvezdico rešijo samo boljši učenci).
- Preveri rešitve, ki so spodaj.

# PITAGOROV IZREK v ENAKOSTRANIČNEM TRIKOTNIKU

- Preriši in prepishi:



ENAKOSTRANIČNI TRIKOTNIK

$$o = 3a$$

$$p = \frac{a \cdot v_a}{2}; p = \frac{a^2 \cdot \sqrt{3}}{4}$$

$$a^2 = v^2 + \left(\frac{a}{2}\right)^2$$

$$v^2 = a^2 - \left(\frac{a}{2}\right)^2$$

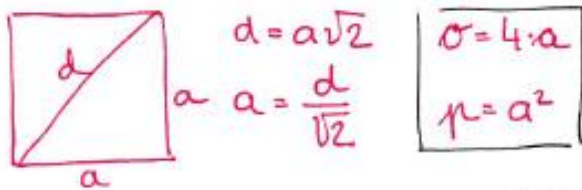
$$v = \frac{a\sqrt{3}}{2}$$

Oglejte si posnetek <https://www.youtube.com/watch?v=cih7JRTpAJ8>

in v zvezek zapiši celotno učno snov, ki je razložena v posnetku. Potrudi se razumeti vso razlago in se pri vajah iz učbenika drži oblike zapisa, ki jo uporablja učiteljica na posnetku.

- Reši naloge iz učbenika, stran 190, nal. 2ab, 3, 7a\*, . (naloge z zvezdico rešijo samo boljši učenci).
- Preveri rešitve, ki so spodaj.

PITAGOROV IZREK V KVADRATU str. 186 2ač, 4ac, 6\*, 7\*



$$d = a\sqrt{2}$$

$$a = \frac{d}{\sqrt{2}}$$

$$\sigma = 4 \cdot a$$

$$p = a^2$$

② a)  $\frac{a=3\text{cm}}{d}$   $d = a\sqrt{2}$   $d = 3\sqrt{2}\text{cm}$

② ě)  $\frac{a=\sqrt{8}}{d}$   $d = a\sqrt{2}$   $d = \sqrt{8} \cdot \sqrt{2}$   $d = \sqrt{16}$   $d = 4\text{cm}$

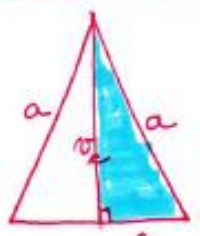
④ a)  $\frac{d=14,1\text{cm}}{a}$   $a = \frac{d}{\sqrt{2}}$   $\sigma = 4 \cdot a$   $\sigma = 4 \cdot 10$   $\sigma = 40\text{cm}$   $p = a \cdot a$   $p = 100\text{cm}^2$

④ c)  $\frac{d=7\sqrt{2}\text{cm}}{a}$   $a = \frac{d}{\sqrt{2}}$   $a = \frac{7\sqrt{2}}{\sqrt{2}}$   $a = 7\text{cm}$   $\sigma = 4 \cdot a$   $\sigma = 28\text{cm}$   $p = a \cdot a$   $p = 49\text{cm}^2$

⑥\*  $\frac{\sigma=32\text{cm}}{p}$   $a = \sigma : 4$   $a = 32 : 4$   $a = 8\text{cm}$   $d = a\sqrt{2}$   $d = 8\sqrt{2}\text{cm}$   $p = a \cdot a$   $p = 64\text{cm}^2$

⑦\*  $\frac{p=121\text{cm}^2}{\sigma}$   $a^2 = p$   $a = \sqrt{p}$   $a = \sqrt{121}$   $a = 11\text{cm}$   $d = a\sqrt{2}$   $d = 11\sqrt{2}\text{cm}$   $\sigma = 4 \cdot a$   $\sigma = 4 \cdot 11$   $\sigma = 44\text{cm}$

PITAGOROV IZREK V ENAKOKRÁKEM TRIKOTNIKU str. 190 1ab, 4\*, 5\*



$$a^2 = v_c^2 + \left(\frac{c}{2}\right)^2$$

$$\left(\frac{c}{2}\right)^2 = a^2 - v_c^2$$

$$v_c^2 = a^2 - \left(\frac{c}{2}\right)^2$$

$$\sigma = 2a + c$$

$$p = \frac{c \cdot v_c}{2}$$

① a)  $\frac{a=10\text{cm}}{c=16\text{cm}}$   $\sigma = 2a + c$   $\sigma = 2 \cdot 10 + 16$   $\sigma = 20 + 16$   $\sigma = 36\text{cm}$

$v_c^2 = a^2 - \left(\frac{c}{2}\right)^2$   $v_c^2 = 10^2 - 8^2$   $v_c^2 = 100 - 64$   $v_c^2 = 36$   $v_c = 6\text{cm}$

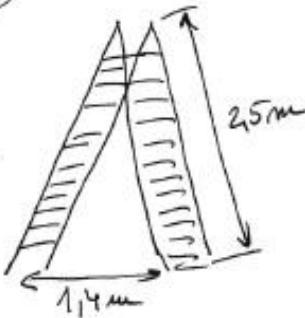
$p = \frac{c \cdot v_c}{2}$   $p = \frac{16 \cdot 6 \cdot 8}{2}$   $p = 48\text{cm}^2$

① b)  $\frac{v_c=12\text{dm}}{c=10\text{dm}}$   $a^2 = v_c^2 + \left(\frac{c}{2}\right)^2$   $a^2 = 12^2 + 5^2$   $a^2 = 144 + 25$   $a^2 = 169$   $a = 13\text{dm}$

$\sigma = 2a + c$   $\sigma = 2 \cdot 13 + 10$   $\sigma = 26 + 10$   $\sigma = 36\text{cm}$


$p = \frac{c \cdot v_c}{2}$   $p = \frac{10 \cdot 12 \cdot 6}{2}$   $p = 60\text{cm}^2$

①d)  $a = 37 \text{ dm}$   $\left(\frac{c}{2}\right)^2 = a^2 - v_c^2$   $\sigma = 2a + c$   $\mu = \frac{c \cdot v_c}{2}$   
 $v_c = 12 \text{ dm}$   $\left(\frac{c}{2}\right)^2 = 37^2 - 12^2$   $\sigma = 2 \cdot 37 + 70$   $\mu = \frac{70 \cdot 12 \cdot 6}{2}$   
 $\sigma$   $\left(\frac{c}{2}\right)^2 = 1369 - 144$   $\sigma = 74 + 70$   $\mu = 420 \text{ dm}^2$   
 $\mu$   $\left(\frac{c}{2}\right)^2 = 1225$   $\sigma = 144 \text{ dm}$   
 $\left(\frac{c}{2}\right)^2 = 1225$   $\left(\frac{c}{2}\right) = 35 \Rightarrow c = 70 \text{ dm}$

④   $a = 25 \text{ dm}$   $v_c^2 = a^2 - \left(\frac{c}{2}\right)^2$   
 $c = 14 \text{ dm}$   $v_c^2 = 25^2 - 7^2$   
 $v_c = ?$   $a^2 = 625 - 49$   
 $v_c^2 = 576$   
 $v_c = 24 \text{ dm}$

⑤  $\mu = 240 \text{ cm}^2$   $\mu = \frac{c \cdot v_c}{2}$   $c = \frac{2 \cdot 240 \cdot 10}{24}$   $a^2 = v_c^2 + \left(\frac{c}{2}\right)^2$   $\sigma = 2a + c$   
 $v_c = 24 \text{ cm}$   $2\mu = c \cdot v_c$   $c = 20 \text{ cm}$   $a^2 = 24^2 + 10^2$   $\sigma = 2 \cdot 26 + 20$   
 $\sigma$   $c = \frac{2 \cdot \mu}{v_c}$   $a^2 = 576 + 100$   $\sigma = 52 + 20$   
 $a^2 = 676$   $\sigma = 72 \text{ cm}$   
 $a = 26 \text{ cm}$

PITAGOROV IZREK V ENAKOSTRANIČNEM TRIKOTNIKU  $190, 2ab, 3, 7a^*$

  $v = \frac{a\sqrt{3}}{2}$   $\sigma = 3 \cdot a$  (2a)  $v = \frac{a\sqrt{3}}{2}$   $\sigma = 3 \cdot 8$   
 $a = \frac{2 \cdot v}{\sqrt{3}}$   $\mu = \frac{a^2 \sqrt{3}}{4} = \frac{a \cdot v_a}{2}$   $a = 8 \text{ cm}$   $v = \frac{8\sqrt{3} \cdot 4}{2}$   $\sigma = 24 \text{ cm}$   
 $\sigma$   $v = 4\sqrt{3} \text{ cm}$   $\mu = \frac{a^2 \sqrt{3}}{4}$   $\mu = \frac{a^2 \sqrt{3}}{4}$   
 $\mu$   $\mu = \frac{8 \cdot 8 \sqrt{3} \cdot 12}{4}$

②b)  $v = 2,7\sqrt{3} \text{ cm}$  (3)  $\sigma = 21 \text{ cm}$   $a = \sigma : 3$   $\mu = \frac{a^2 \sqrt{3}}{4}$   $\mu = 16\sqrt{3} \text{ cm}^2$   
 $\sigma = 16,2 \text{ cm}$   $a = 21 : 3$   $\mu = \frac{49\sqrt{3}}{4}$   
 $\mu = 7,29\sqrt{3} \text{ cm}^2$   $a = 7 \text{ cm}$   $\mu = 12,25\sqrt{3} \text{ cm}^2$

⑦  $v = 6 \text{ cm}$   $a = \frac{2 \cdot v}{\sqrt{3}}$   $\sigma = 3 \cdot a$   $\mu = \frac{a^2 \sqrt{3}}{4}$   
 $\sigma$   $a = \frac{2 \cdot 6 \cdot \sqrt{3}}{\sqrt{3}}$   $\sigma = 3 \cdot 4\sqrt{3}$   $\mu = \frac{(4\sqrt{3})^2 \sqrt{3}}{4}$   
 $\mu$   $a = \frac{12\sqrt{3}}{3}$   $\sigma = 12\sqrt{3} \text{ cm}$   $\mu = \frac{16 \cdot 3 \sqrt{3} \cdot 4}{4}$   
 $a$   $a = 4\sqrt{3} \text{ cm}$   $\mu = 12\sqrt{3} \text{ cm}^2$

