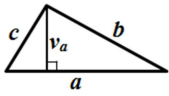


## Formule - 7. razred - početak cjeline Mnogokuti

### Trokuti

#### raznostranični trokut



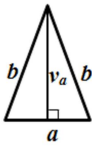
$$O = a + b + c$$

$$P = \frac{b \cdot v_b}{2}$$

$$P = \frac{a \cdot v_a}{2}$$

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

#### jednakokranični trokut



a - osnovica  
b - kraci

$$O = a + 2b$$

Kutovi uz osnovicu su jednaki.

$$P = \frac{a \cdot v_a}{2}$$

#### jednakostranični trokut

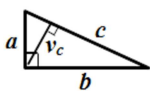


$$O = 3a$$

$$P = \frac{a \cdot v_a}{2}$$



#### pravokutni trokut



a, b - katete (stranice uz pravi kut)  
c - hipotenuza (stranica nasuprot pravom kutu)

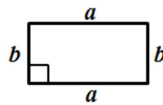
$$O = a + b + c$$

$$P = \frac{a \cdot b}{2}$$

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

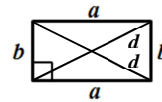
Zbroj kutova trokuta je (uvijek) 180°.

#### pravokutnik



$$O = 2a + 2b$$

$$P = a \cdot b$$



Dijagonale pravokutnika:  
- jednako su duge,  
- raspolavljaju se.

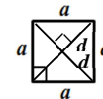
#### kvadrat



$$O = 4a$$

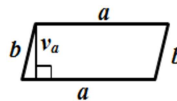
$$P = a \cdot a$$

$$P = \frac{d \cdot d}{2}$$



Dijagonale kvadrata:  
- jednako su duge,  
- raspolavljaju se,  
- sijeku se pod pravim kutem.

#### paralelogram



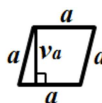
$$O = 2a + 2b$$

$$P = a \cdot v_a$$

$$P = b \cdot v_b$$

Nausprotni kutovi su sukladni (jednakih veličina), a susjedni suplementarni (zbroj im je 180°).

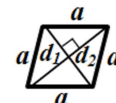
#### romb



$$O = 4a$$

$$P = a \cdot v_a$$

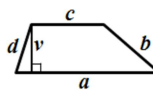
$$P = \frac{d_1 \cdot d_2}{2}$$



Dijagonale romba:  
- raspolavljaju se,  
- sijeku se pod pravim kutem.

Nausprotni kutovi su sukladni (jednakih veličina), a susjedni suplementarni (zbroj im je 180°).

#### trapez



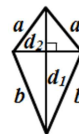
$$O = a + b + c + d$$

$$P = \frac{(a + c) \cdot v}{2}$$

a, c - osnovice (paralelne stranice)  
b, d - kraci

Zbroj kutova četverokuta je (uvijek) 360°.

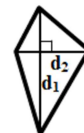
#### deltoid



$$O = 2a + 2b$$

$$P = \frac{d_1 \cdot d_2}{2}$$

#### četverokuti s okomitim dijagonalama



$$P = \frac{d_1 \cdot d_2}{2}$$

U četverokute s okomitim dijagonalama spadaju:  
- kvadrat,  
- romb,  
- deltoid  
...

#### Oznake:

O – opseg,  
P – površina,

v – visina,  
d – duljina dijagonale,

R – radijus (polumjer) opisane kružnice,  
r – radijus (polumjer) upisane kružnice