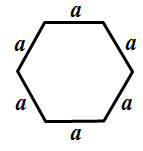
**O obodnim i središnjim kutovima**

**Šesterokut**

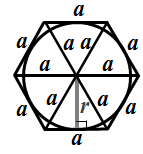
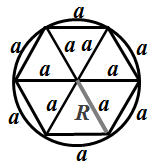
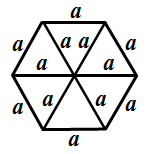
***d = 2a***

***R = a***

**pravilni šesterokut**



***O = 6a***



Zbroj kutova trokuta je (uvijek) 180°.

**jednakostranični trokut**

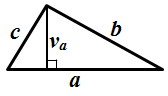


***O = 3a***



**raznostranični trokut**

***O = a + b + c***



**Oznake**:

O – opseg,

P – površina,

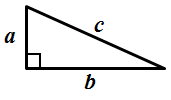
d – duljina dijagonale,

v– visina,

R – radijus (polumjer) opisane kružnice,

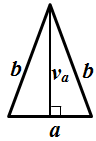
r – radijus (polumjer) upisane kružnice

**Pitagorin poučak**

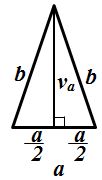


**Trokuti**

**jednakokračni trokut**



***O = a + 2b***



a - osnovica

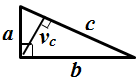
b - kraci

Kutovi uz osnovicu

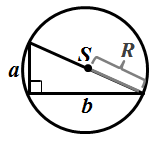
su jednaki.

****

**pravokutni trokut**



***O = a + b + c***



a, b - katete (stranice uz pravi kut)

c - hipotenuza (stranica nasuprot

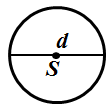
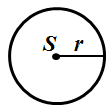
pravom kutu)

**Krug**

***O = 2 r***

***P = r2***

**krug**

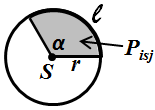


***d = 2r***

***d -***promjer

(dijametar)

kruga



l = ***2 r***

***Pisj = r2***

l *-* duljina kružnog luka

*Pisj -* površina kružnog isječka

**= β**

Obodni kutovi nad istim lukom su jednaki.

**= 2β**

Središnji kut je 2 puta veći od obodnog kuta nad istim lukom.

Svaki obodni kut nad promjerom kruga ima 90°.

**Talesov poučak**

**β**

**β**

***S***

***S***

**Oznake**:

O – opseg,

P – površina,

d – duljina dijagonale,

v– visina,

R – radijus (polumjer) opisane kružnice,

r – radijus (polumjer) upisane kružnice

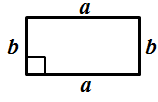
**Četverokuti**

Pravokutnik nema

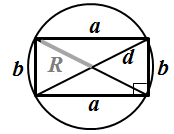
upisanu kružnicu,

osim ako je kvadrat.

**pravokutnik**



***P = a · b***



***O = 2a + 2b***

Dijagonale kvadrata:

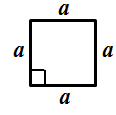
- jednako su duge,

- raspolavljaju se,

- sijeku se pod

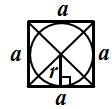
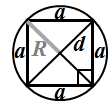
pravim kutem.

**kvadrat**



***O = 4a***

***P = a2***



**n-terokut**

***O = a1 + a2 + a3 + ... + an***

***Kn = (n - 2 ) ∙ 180°***

***dn = n - 3***

*n* - broj vrhova,

*K****n*** - zbroj kutova,

*d****n*** - broj dijagonala

iz jednog vrha,

*D****n*** - ukupan broj

dijagonala tog

n-terokuta

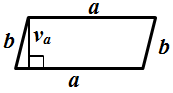
Zbroj vanjskih kutova je uvijek 360°.

***P = a · va***

**paralelogram**

***O = 2a + 2b***

Paralelogram (općenito) nema opisanu ni upisanu kružnicu.



Nausprotni kutovi su sukladni (jednakih veličina), a susjedni suplementarni (zbroj

im je 180°).

***P = b · vb***

***P = a · va***

Romb nema

opisanu kružnicu,

osim ako je kvadrat.

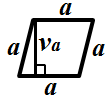
Dijagonale romba:

- raspolavljaju se,

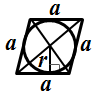
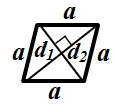
- sijeku se pod

pravim kutem.

**romb**



***O = 4a***



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

a, c - osnovice (paralelne stranice)

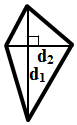
b, d - kraci

**trapez**

***O = a + b + c + d***



**četverokuti s okomitim dijagonalama**



U četverokute s okomitim dijagonalama (između ostalih) spadaju:

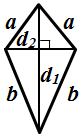
- kvadrat,

- romb,

- deltoid.

**deltoid**

***O = 2a + 2b***



Zbroj kutova četverokuta je (uvijek) 360°.

**Mnogokuti (općenito)**

**pravilni n-terokut**

***O = n ∙ a***

**=**

*n* - broj vrhova,

- veličina kuta

pravilnog

n-terokuta

**=**