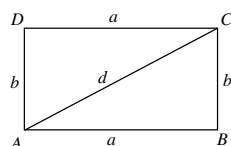


# GEOMETRIJSKI LIKOVI

## Pravokutnik:

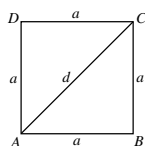


$$P = a \cdot b$$

$$O = 2a + 2b$$

$$d = \sqrt{a^2 + b^2}$$

## Kvadrat:

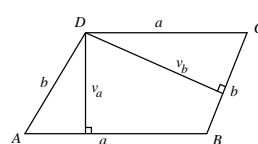


$$P = a^2$$

$$O = 4 \cdot a$$

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

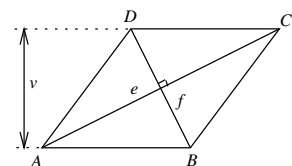
## Paralelogram:



$$P = a \cdot v_a = b \cdot v_b$$

$$O = 2a + 2b$$

## Romb:

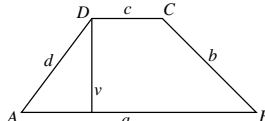


$$P = a \cdot v$$

$$P = \frac{e \cdot f}{2}$$

$$O = 4 \cdot a$$

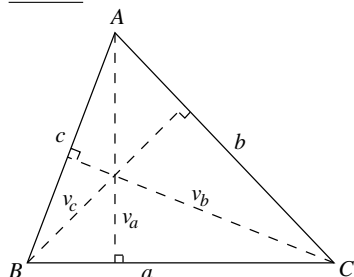
## Trapez:



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

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

## Trokut



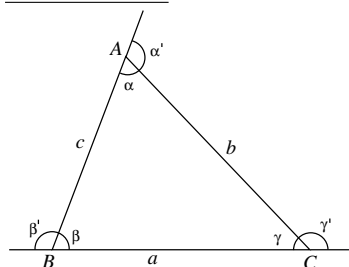
$$O = a + b + c$$

$$P = \frac{a \cdot v_a}{2} = \frac{b \cdot v_b}{2} = \frac{c \cdot v_c}{2}$$

$$s = \frac{a + b + c}{2}$$

$$P = \sqrt{s \cdot (s - a) \cdot (s - b) \cdot (s - c)}$$

## Kutovi trokuta



$$\alpha + \beta + \gamma = 180^\circ$$

$$\alpha' + \beta' + \gamma' = 360^\circ$$

$$\alpha + \alpha' = 180^\circ$$

$$\beta + \beta' = 180^\circ$$

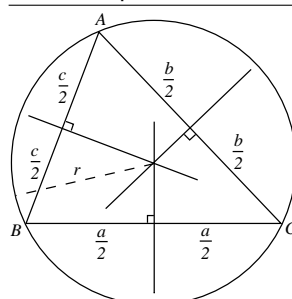
$$\gamma + \gamma' = 180^\circ$$

$$\alpha' = \beta + \gamma$$

$$\beta' = \alpha + \gamma$$

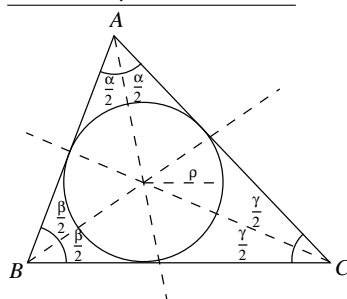
$$\gamma' = \alpha + \beta$$

## Trokutu opisana kruznica:



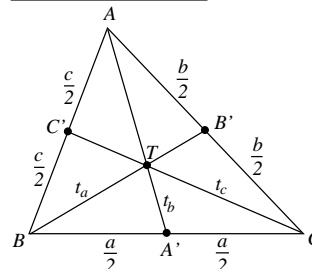
$$P = \frac{a \cdot b \cdot c}{4 \cdot r}$$

## Trokutu upisana kruznica:



$$P = \rho \cdot s$$

## Težišnice trokuta:

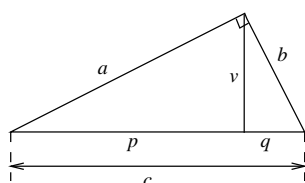


$$|AT| : |TA'| = 2 : 1$$

$$|BT| : |TB'| = 2 : 1$$

$$|CT| : |TC'| = 2 : 1$$

## Pravokutni trokut:



$$a^2 = p \cdot c$$

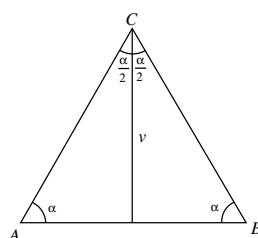
$$b^2 = q \cdot c$$

$$v^2 = p \cdot q$$

$$a^2 + b^2 = c^2$$

$$c \cdot v = a \cdot b$$

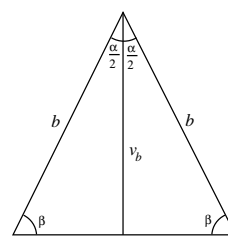
## Jednakostraničan trokut:



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

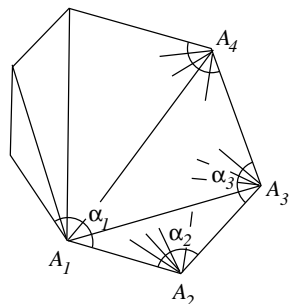
$$P = \frac{a^2 \cdot \sqrt{3}}{4}$$

## Jednakokrtačan trokut:



$$v_a = \sqrt{b^2 - \frac{a^2}{4}}$$

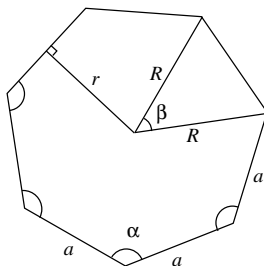
### Mnogokut:



$$K(n) = (n-2) \cdot 180^\circ$$

$$D(n) = \frac{n \cdot (n-2)}{2}$$

### Pravilni mnogokut:



$$O = n \cdot a$$

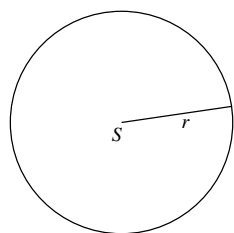
$$\alpha = \frac{(n-2) \cdot 180^\circ}{n}$$

$$\beta = \frac{180^\circ}{n}$$

$$P = \frac{a \cdot r \cdot n}{2}$$

$$R^2 = r^2 + \frac{a^2}{4}$$

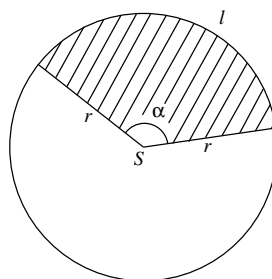
### Krug i kružnica:



$$O = 2 \cdot r \cdot \pi$$

$$P = r^2 \cdot \pi$$

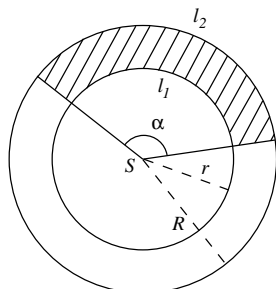
### Kružni luk kružni isječak:



$$I = \frac{\alpha \cdot r^2 \cdot \pi}{360^\circ}$$

$$l = \frac{r \cdot \pi \cdot \alpha}{180^\circ}$$

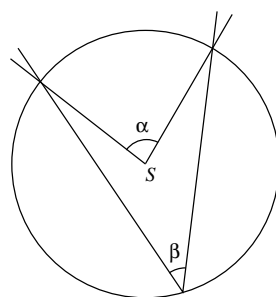
### Kružni vijenac i isječak:



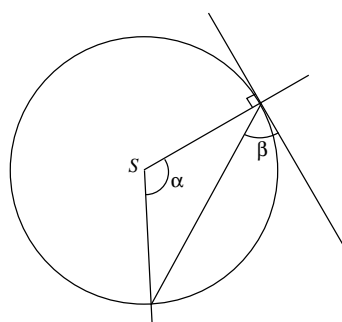
$$P = (R^2 - r^2) \cdot \pi$$

$$I = \frac{\pi \cdot \alpha}{360^\circ} \cdot (R^2 - r^2) = \frac{l_1 + l_2}{2} \cdot (R - r)$$

### Obodni i središnji kut:

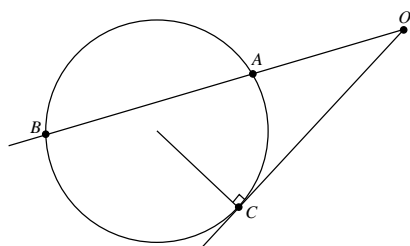


$$\beta = \frac{\alpha}{2}$$

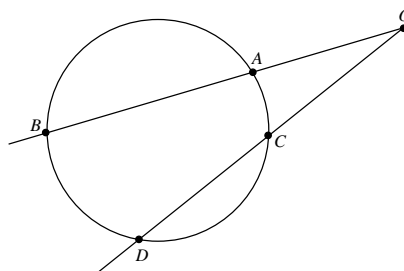


$$\beta = \frac{\alpha}{2}$$

### Potencija točke s obzirom na kružnicu:



$$|OA| \cdot |OB| = |OC|^2$$



$$|OA| \cdot |OB| = |OC| \cdot |OD|$$