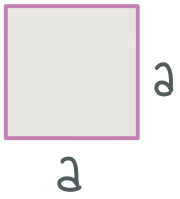
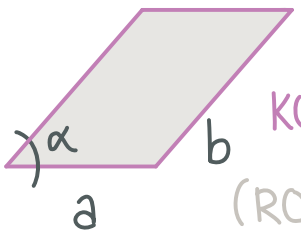
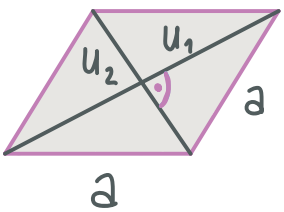
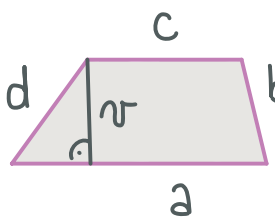
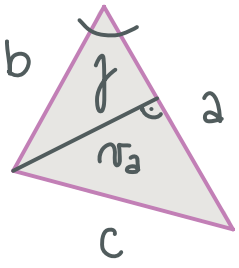
14

PLANIMETRIE

	OBVOD	OBSAH
 ČTVEREC	$o = 4 \cdot a$	$S = a \cdot a$
 OBDÉLNÍK	$o = 2(a+b)$	$S = a \cdot b$
 KOSODÉLNÍK (ROVNOBĚŽNÍK)	$o = 2(a+b)$	$S = a \cdot b \cdot \sin\alpha$ $S = a \cdot v_a$
 KOSOČTVEREC	$o = 4 \cdot a$	$S = a \cdot a \cdot \sin\alpha$ $S = \frac{u_1 \cdot u_2}{2}$
 LICHOBĚŽNÍK	$o = a+b+c+d$	$S = \frac{(a+c)}{2} \cdot v$

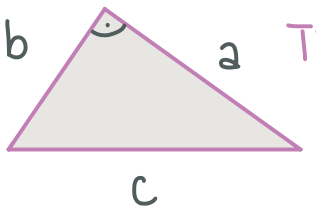


TROJÚHELNÍK OBECNÝ

$$o = a + b + c$$

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

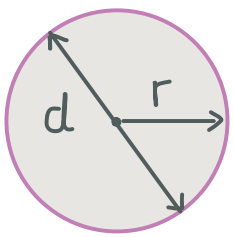
$$S = \frac{1}{2} ab \sin\gamma$$



TROJÚHELNÍK PRAVOÚHLÝ

$$o = a + b + c$$

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



KRUH

$$d = 2r$$

$$o = 2\pi r$$

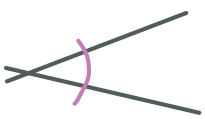
$$o = \pi d$$

$$S = \pi r^2$$

$$S = \pi \frac{d^2}{4}$$

ÚHLY

OSTRÝ



$(0°, 90°)$

PRAVÝ

$90°$

TUPÝ

$(90°, 180°)$

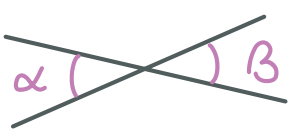
PŘÍMÝ

$180°$

VEDLEJŠÍ

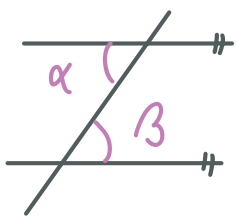
$\alpha + \beta = 180°$

VRCHOLOVÉ



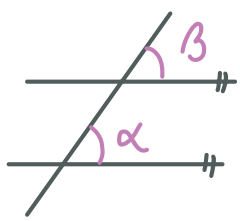
$\alpha = \beta$

STŘÍDAVÉ



$\alpha = \beta$

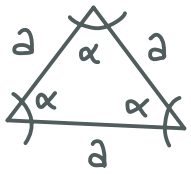
SOUHLASNÉ



$\alpha = \beta$

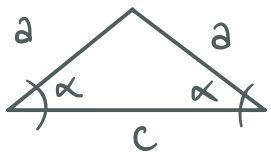
• TROJÚHELNÍK

- součet vnitřních úhlů $\alpha + \beta + \gamma = 180°$
- rovnostranný
RSΔ



$\alpha = 60°$

- rovnoramenný
RRΔ

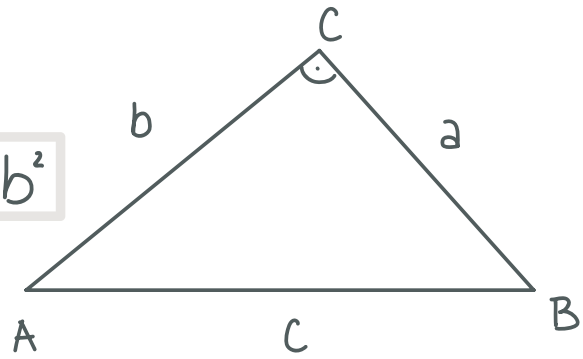


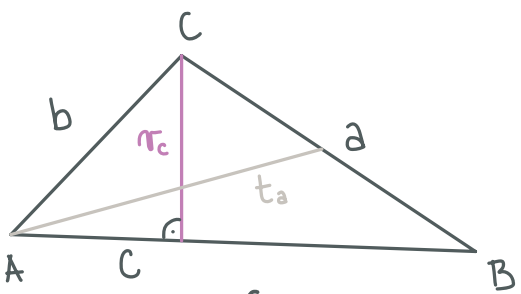
$a = a$

$\alpha = \alpha$

PRAVOÚHLÝ

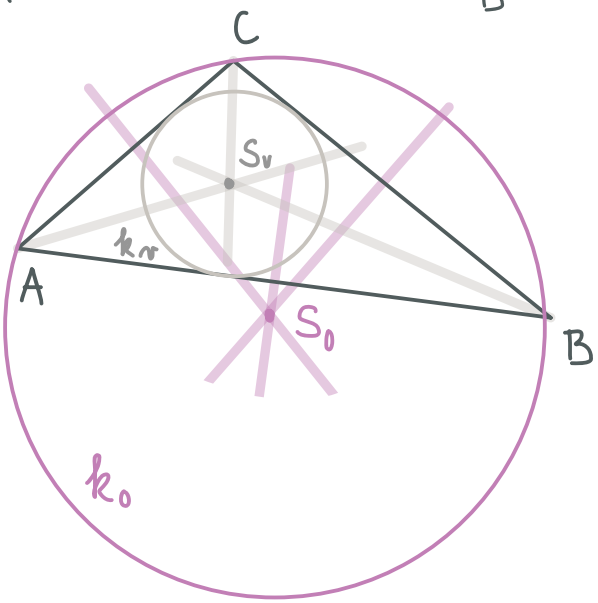
- PYTHAGOROVA VĚTA $c^2 = a^2 + b^2$





VÝŠKA - kolmo na stranu

TĚŽNICE - do středu strany



KRUŽNICE

OPSANÁ - osy stran

VEPSANÁ - osy úhlů