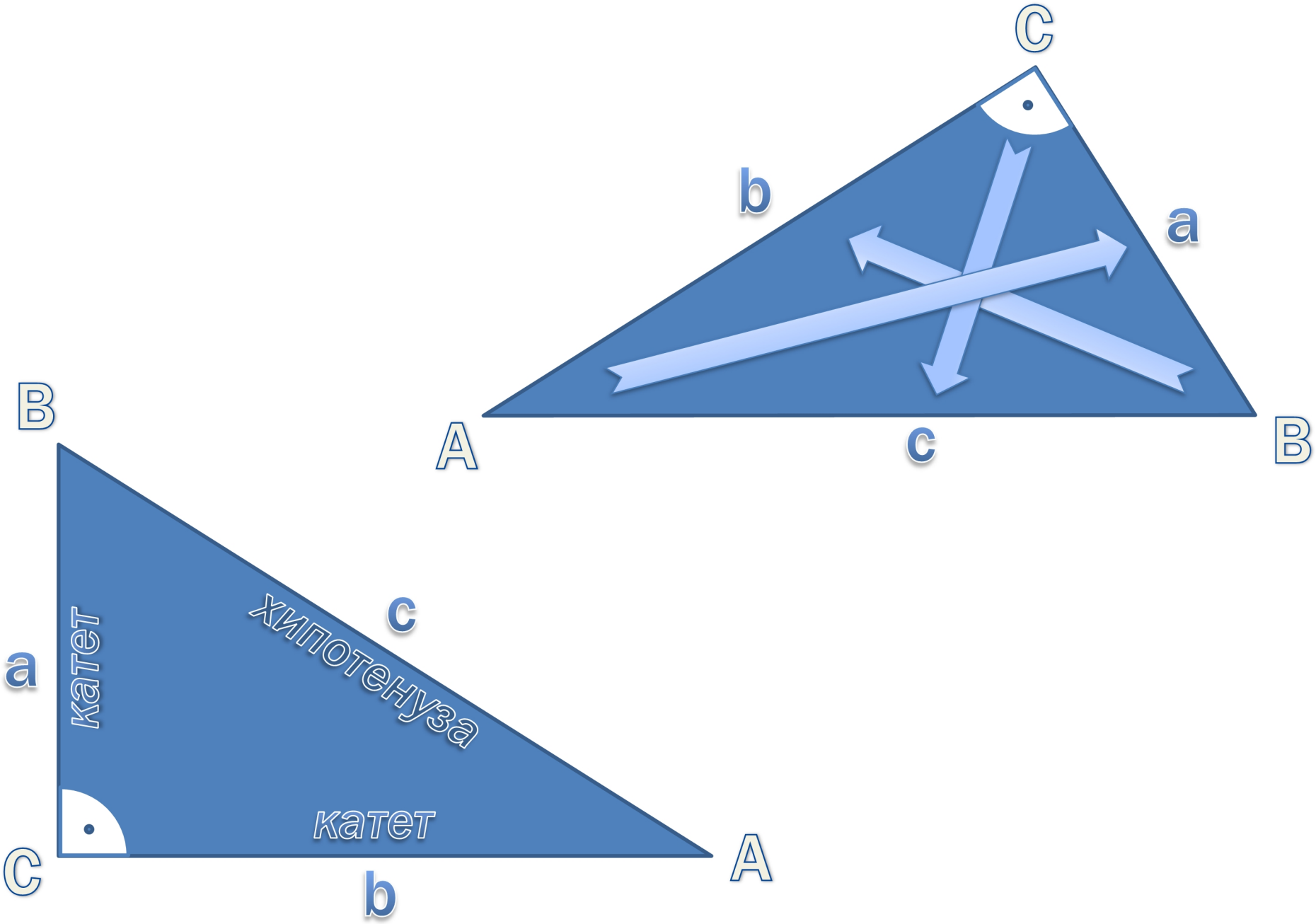
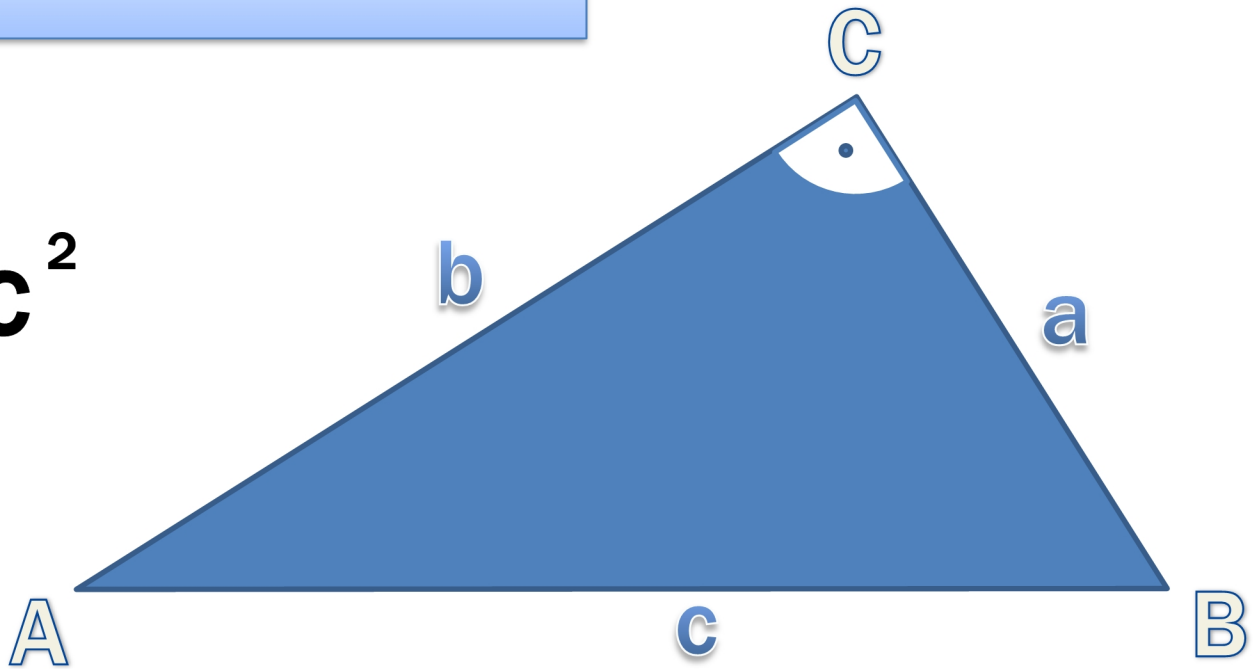
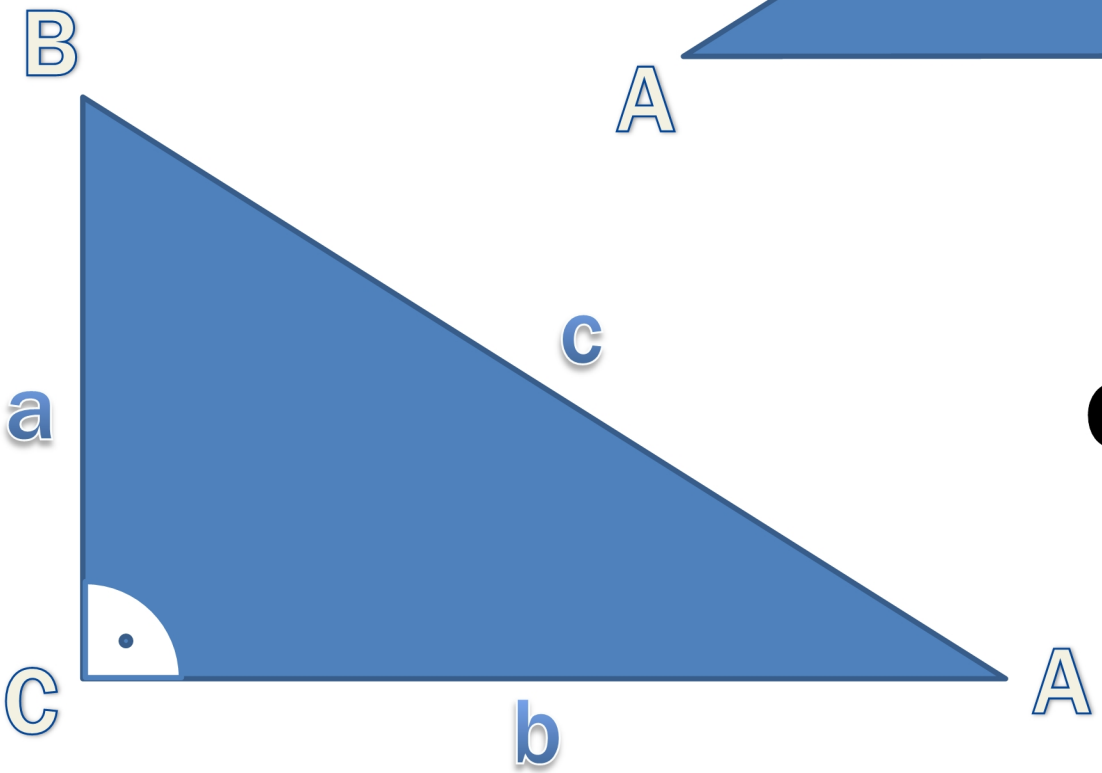
ПРАВОЪГЪЛЕН ТРИЪГЪЛНИК


C
b
a
A
c
B
B
a
катет
c
гипотенуза
C
катет
A
b

Питагорова теорема

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



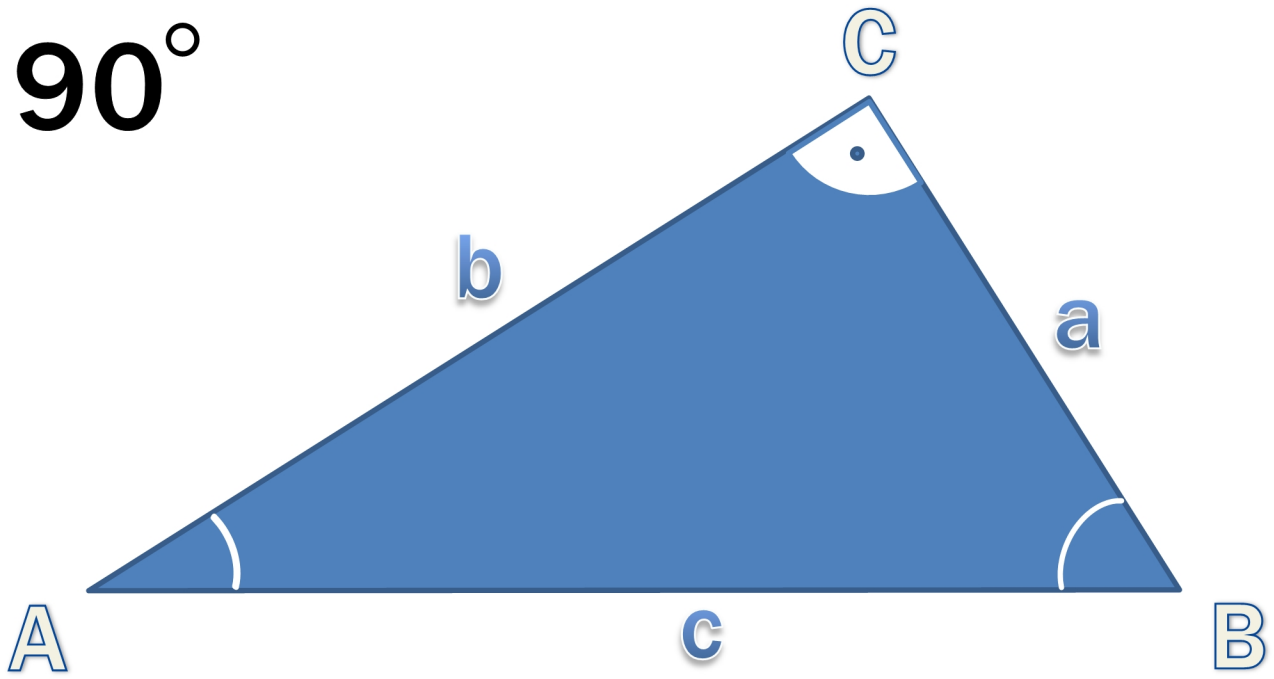


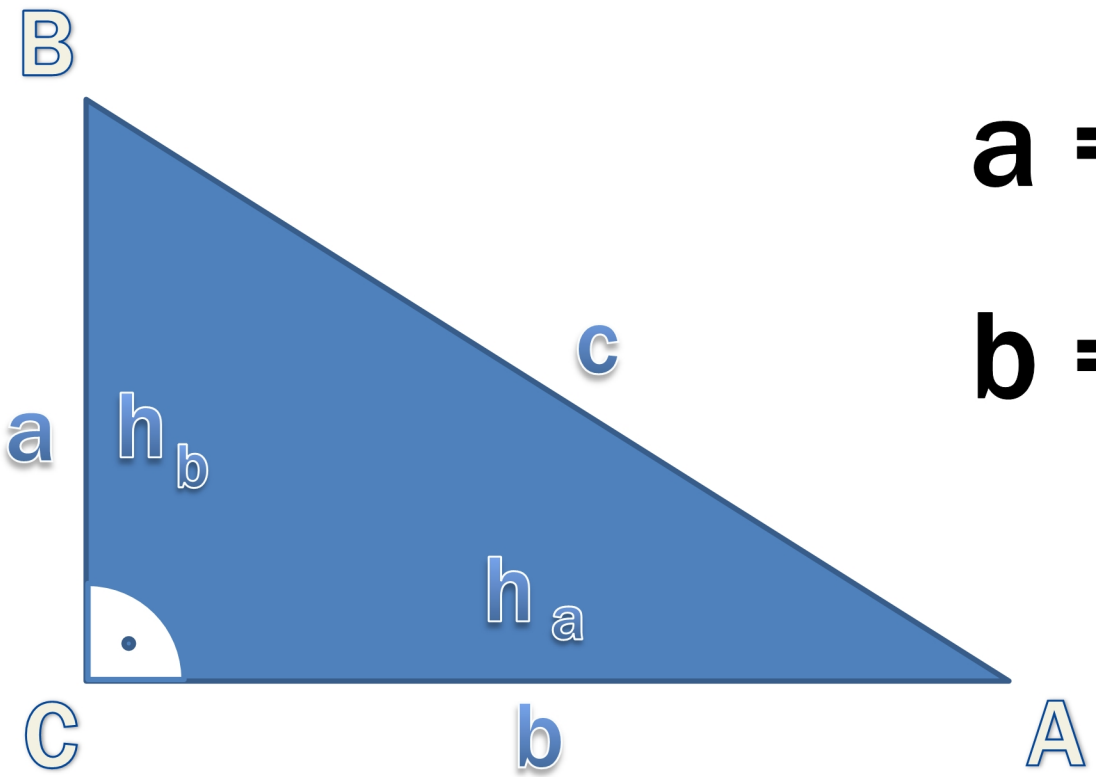
$$c^2 = a^2 + b^2$$

$\sphericalangle A + \sphericalangle B = 90^\circ$

защото

$180^\circ - \sphericalangle C = 90^\circ$





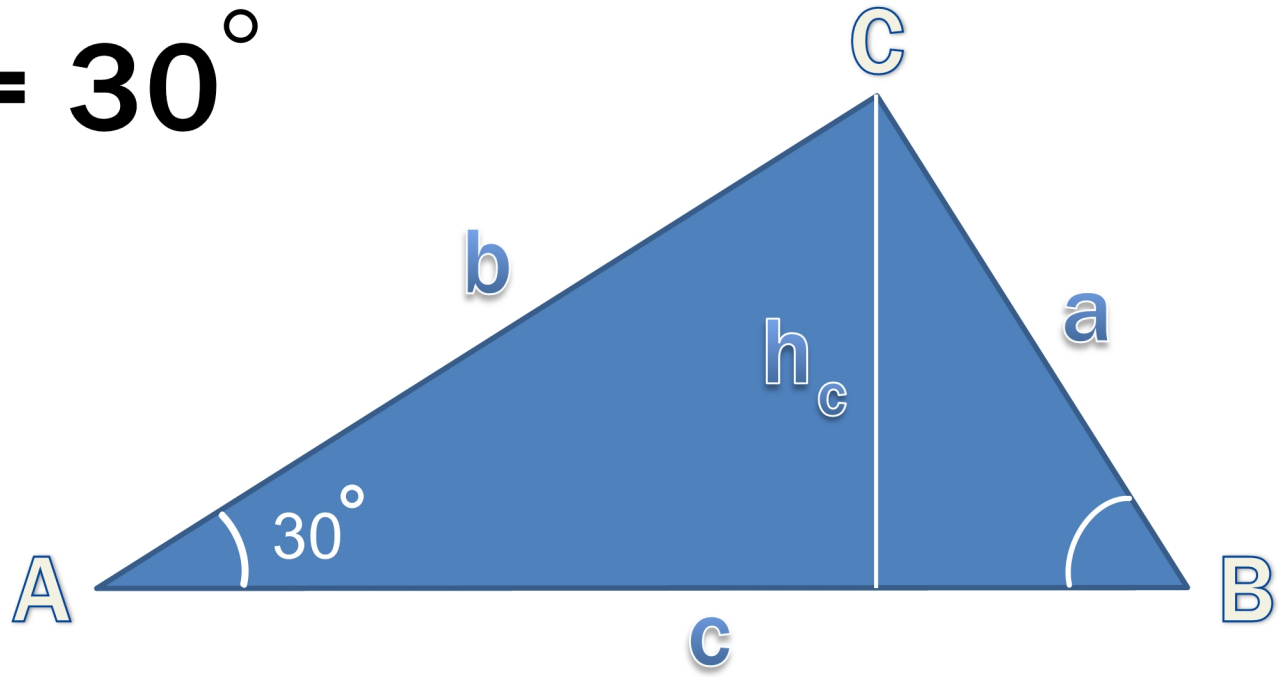
$$a = h_b$$

$$b = h_a$$

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

При $\sphericalangle A = 30^\circ$

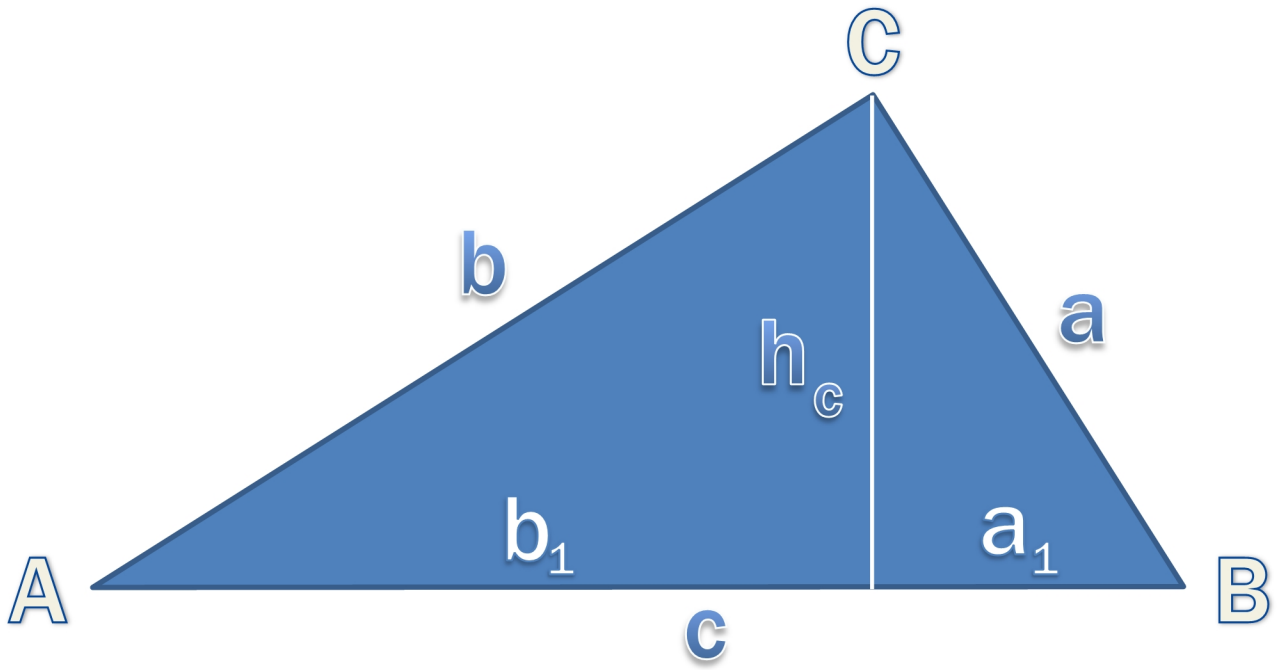
$a = \frac{1}{2} c$



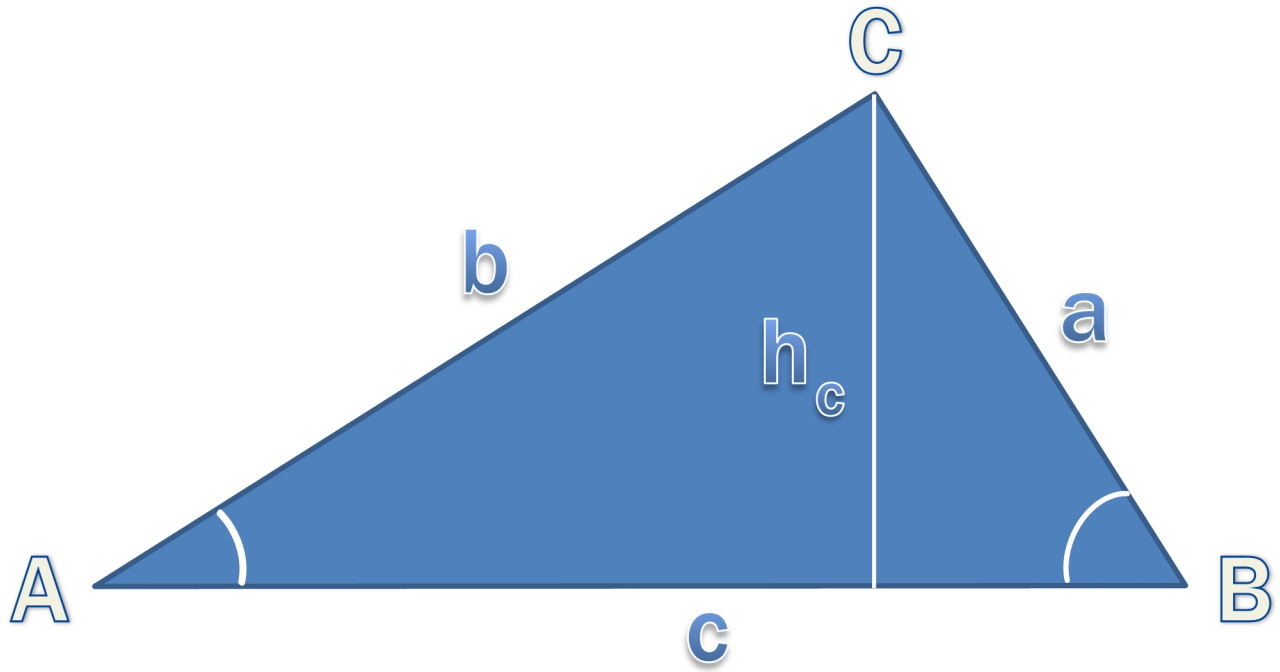
$$a^2 = a_1 . c$$

$$b^2 = b_1 . c$$

$$h_c . c = a . b$$

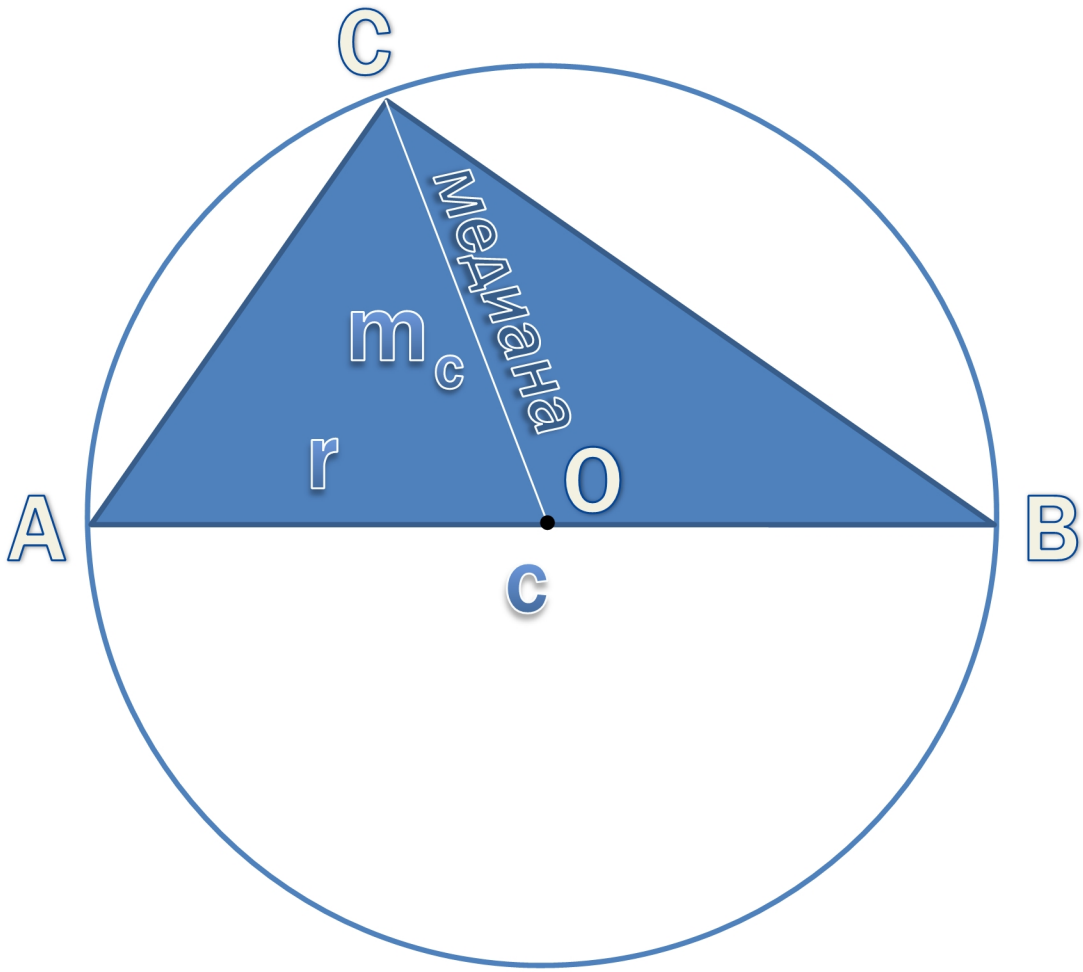


$$h_c^2 = a_1 . b_1$$

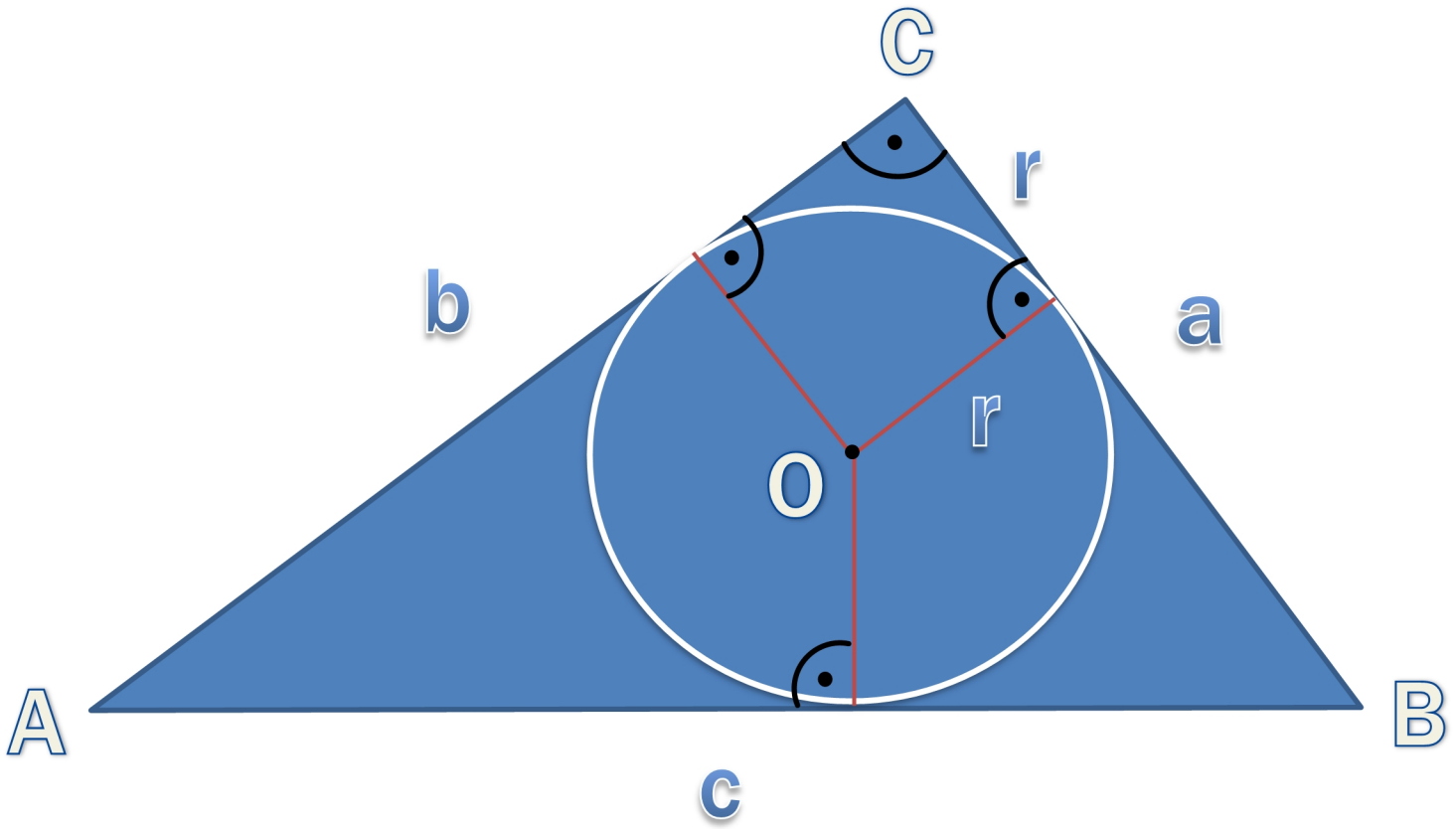


$$a = c \,.\, sin \sphericalangle A = c.\, cos \sphericalangle B$$

$$b = c \,.\, sin \sphericalangle B = c.\, cos \sphericalangle A$$



$$m_c = r = \frac{1}{2}\, c$$



$$r = \frac{a + b - c}{2}$$