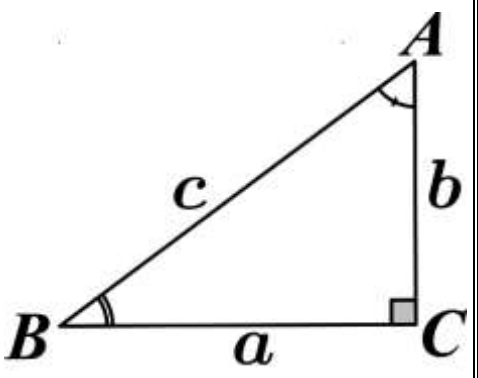
Special Triangles

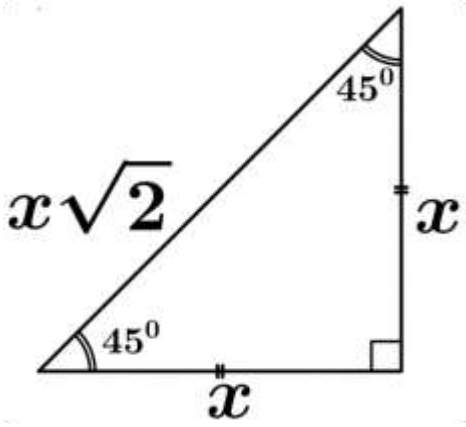
Pythagorean theorem

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



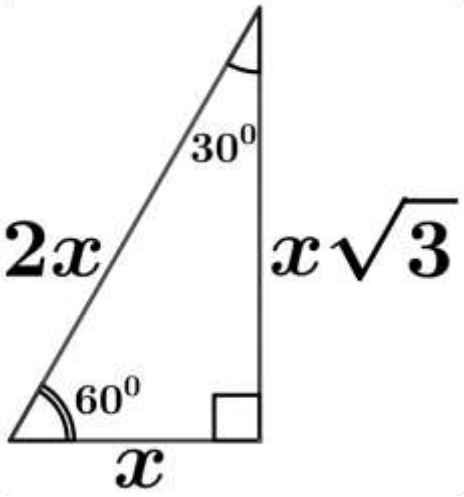
$45^\circ : 45^\circ : 90^\circ\ \Delta$

$x : x : x\sqrt{2}$

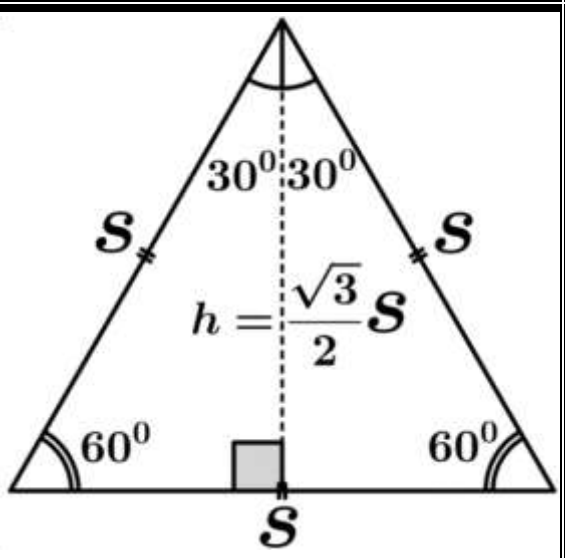


$30^\circ : 60^\circ : 90^\circ\ \Delta$

$x : x\sqrt{3} : 2x$

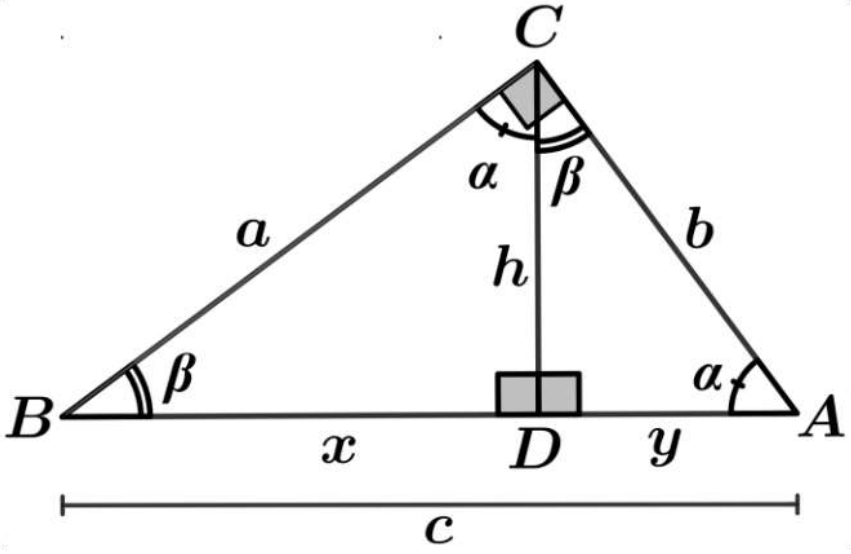


$60^\circ : 60^\circ : 60^\circ\ \Delta$



$$A = \frac{s^2\sqrt{3}}{4}$$

$\Delta ABC \sim \Delta_{Left} \sim \Delta_{Right}$



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

$$a^2 = xc$$

$$b^2 = yc$$

$$h^2 = xy$$