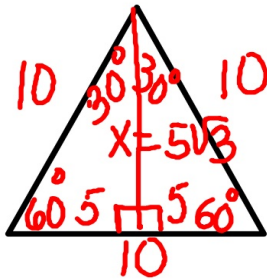


8-4 Special Right Triangles

Feb 2

std. 20.0

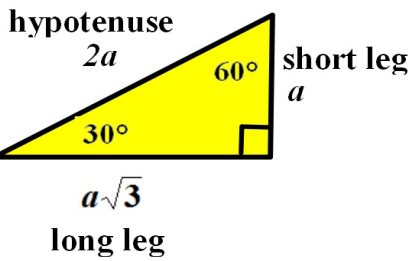
equilateral triangle



$$x^2 + 5^2 = 10^2$$

$$\sqrt{x^2} = \sqrt{75} \quad \sqrt{25\sqrt{3}}$$

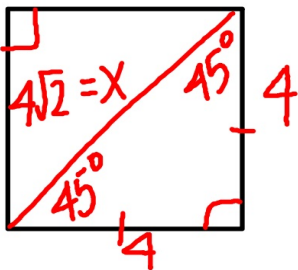
$$x = 5\sqrt{3}$$



30°-60°-90° triangle

long leg is $\sqrt{3}$ times the short leg
hypotenuse is 2 times the short leg

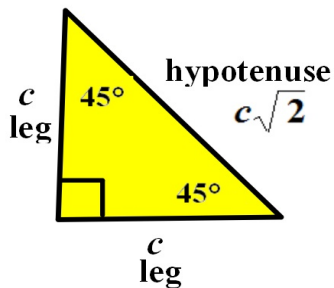
square



$$x^2 = 4^2 + 4^2$$

$$\sqrt{x^2} = \sqrt{32} \quad \sqrt{16\sqrt{2}}$$

$$4\sqrt{2}$$



45°-45°-90° triangle
(isosceles right triangle)

hypotenuse is $\sqrt{2}$ times each leg

Examples

