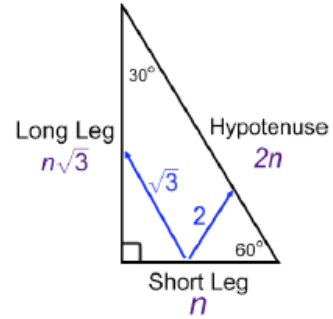


Special Right Triangles ... Set 2

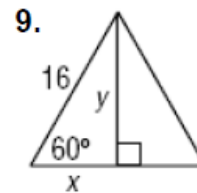
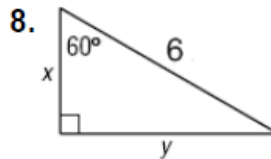
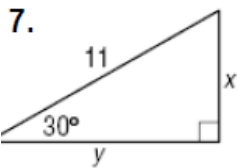
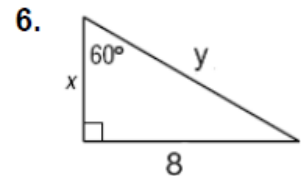
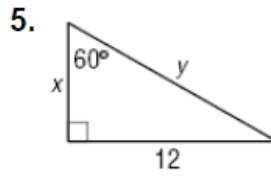
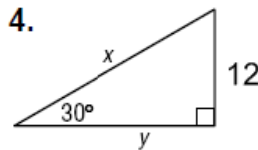
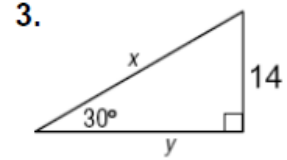
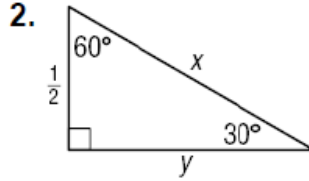
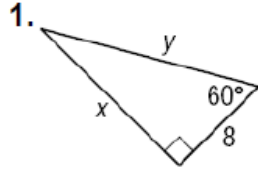
Special Right Triangles: 30° - 60° - 90°

Hypotenuse = 2 * Short Leg

Long Leg = Short Leg * $\sqrt{3}$



Find the value of x and y in each triangle.



Sketch the figure that is described. Then, find the requested measure.

10. An equilateral triangle has a side length of 10 inches.

Find the length of the triangles altitude.

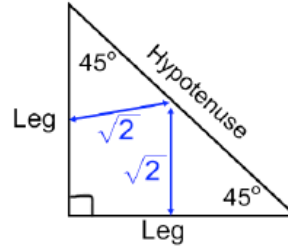
11. The altitude of an equilateral triangle is 18 inches. Find the length of a side.

Special Right Triangles ... Set 2

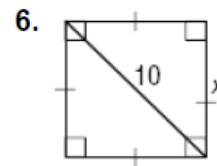
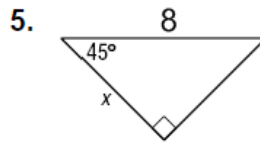
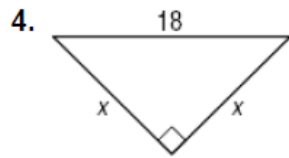
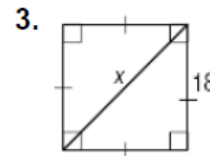
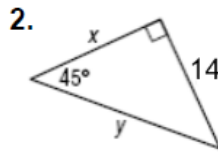
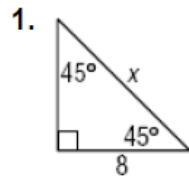
Special Right Triangles: 45° - 45° - 90°

$$\text{Hypotenuse} = \text{Leg} * \sqrt{2} \sqrt{2}$$

$$\text{Leg} = \frac{\text{hypotenuse}}{\sqrt{2}}$$



Find the value of x in each triangle.



Sketch the figure that is described. Find the requested measure.

7. The perimeter of a square is 48 meters. Find the length of a diagonal.

8. The perimeter of a square is 20 cm. Find the length of a diagonal.

Find the value of x and y in each figure.

