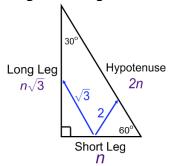
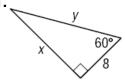
Special Right Triangles: 30° - 60° - 90°

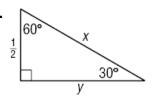
Hypotenuse = 2 * Short Leg

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

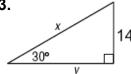


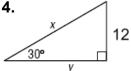
Find the value of x and y in each triangle.



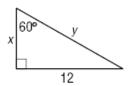


3.

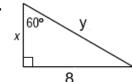


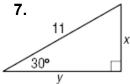


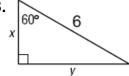
5.



6.







9.



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

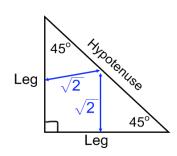
10. An equilateral triangle has a side length of 10 inches. Find the length of the triangles altitude.

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

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

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

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

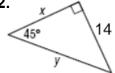


Find the value of x in each triangle.

1.



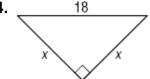
2



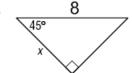
3.



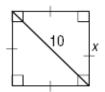
4.



5.



6.



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.

9.



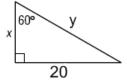
10.



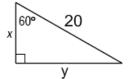
11.



12.



13.



14.

