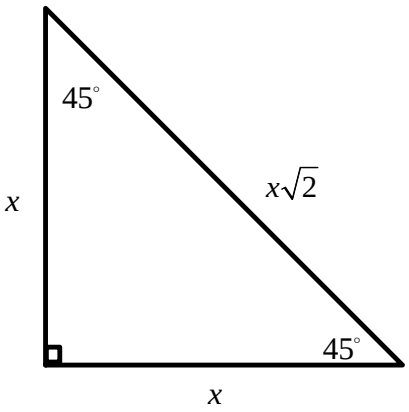
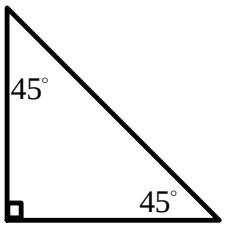
Special Right Triangles

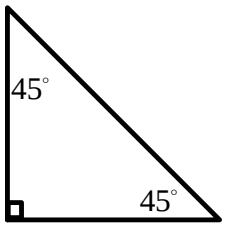
$\underline{45^\circ - 45^\circ - 90^\circ}$



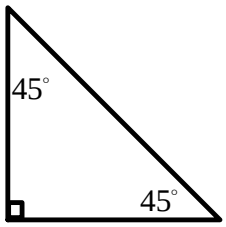
$x = 10$



$x = \frac{1}{2}$

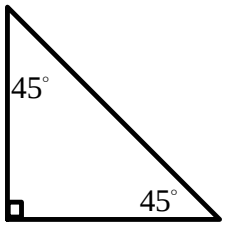


$x = \sqrt{2}$



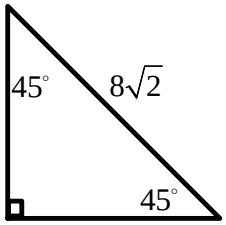
1. Find the missing sides of each $45^\circ - 45^\circ - 90^\circ$ triangle.

a)

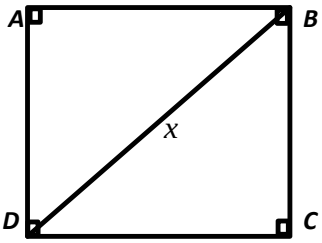


6

b)

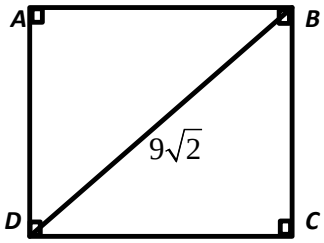


c) *ABCD* is a square.



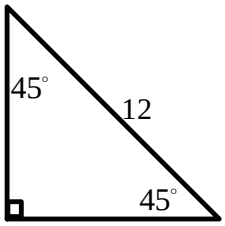
7.5

d) *ABCD* is a square.

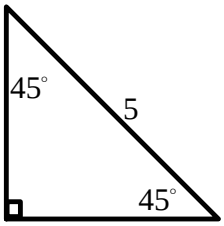


x

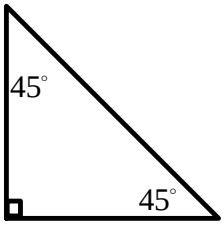
e)



f)

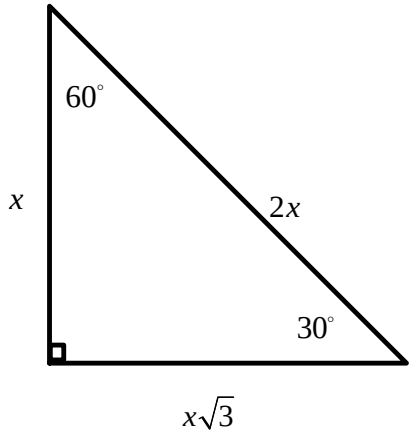


g)

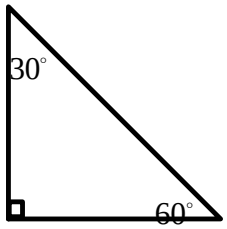


$6\sqrt{2}$

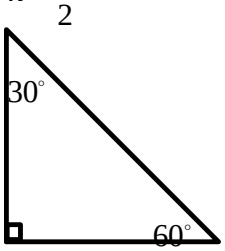
$\underline{30^\circ - 60^\circ - 90^\circ}$



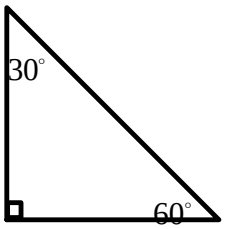
$x = 10$



$x = \frac{1}{2}$

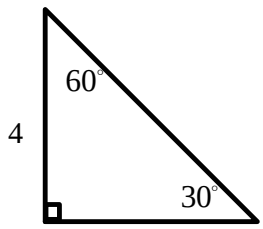


$x = 3\sqrt{2}$

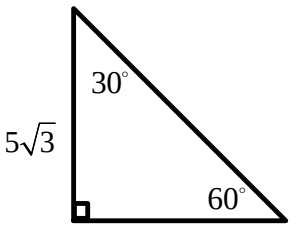


2. Find the missing sides of each $30^\circ - 60^\circ - 90^\circ$ triangle.

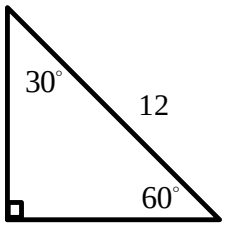
a)



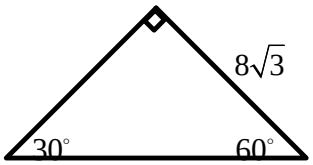
b)



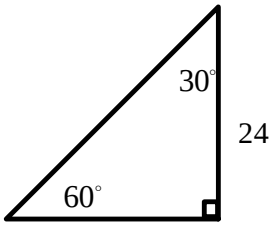
c)



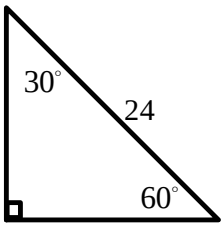
d)



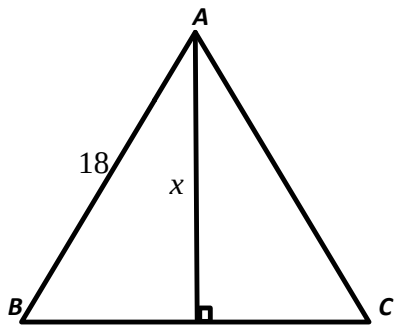
e)



f)



g) ABC is an equilateral triangle.



3. Find the area of an equilateral triangle if each side is $5\sqrt{3}$ centimeters.

4. Find the perimeter and area of a square if the diagonal is 9 meters.

5. Find the area of the parallelogram.