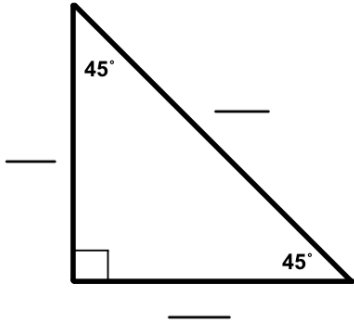


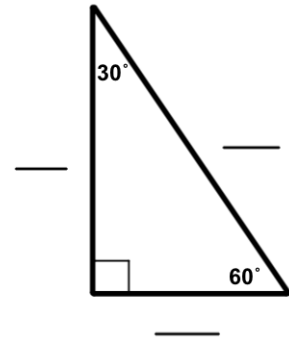
**LEVEL: EMERGING**

Directions: Find the lengths of the each of the sides of the 45-45-90° and 30-60-90° triangles in terms of  $x$ .

1) 45-45-90



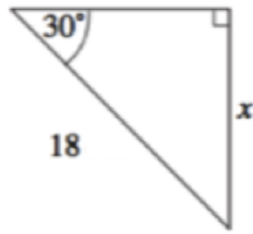
2) 30-60-90



**LEVEL: PROFICIENT**

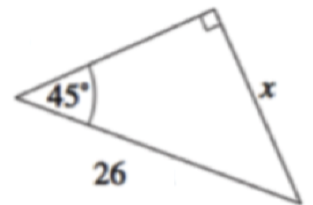
Directions: Find the exact length, unless otherwise noted, of the indicated side. Round approximate answers to two decimal places.

3)



$x =$  \_\_\_\_\_

4)



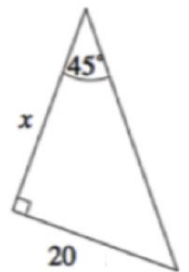
$x =$  \_\_\_\_\_

5)



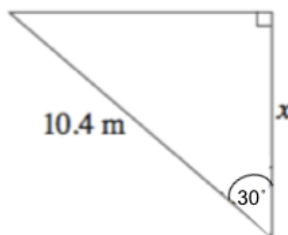
$x =$  \_\_\_\_\_

6)



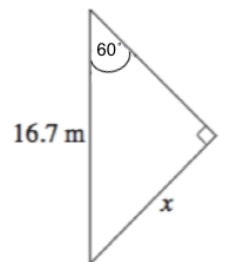
$x =$  \_\_\_\_\_

7) Approximate value of  $x$ .



$x \approx$  \_\_\_\_\_

8) Approximate value of  $x$ .

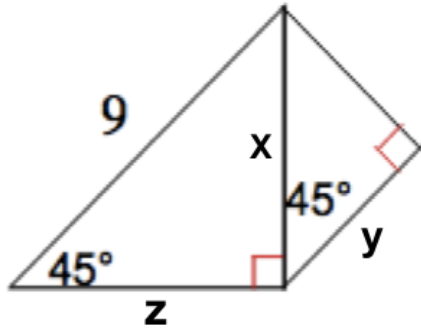


$x \approx$  \_\_\_\_\_

**LEVEL: MASTERY**

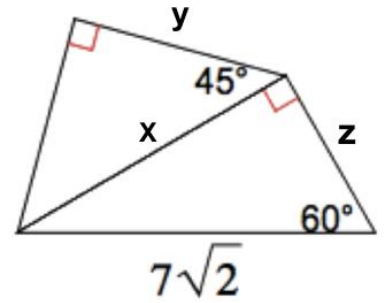
Directions: Find the exact length of the indicated sides. Then find their approximate sum. Round all sums to two decimal places.

9)



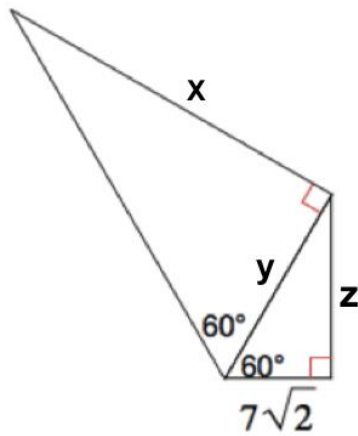
$x = \underline{\hspace{1cm}}$   $y = \underline{\hspace{1cm}}$   $z = \underline{\hspace{1cm}}$  SUM  $\approx$   $\underline{\hspace{1cm}}$

10)



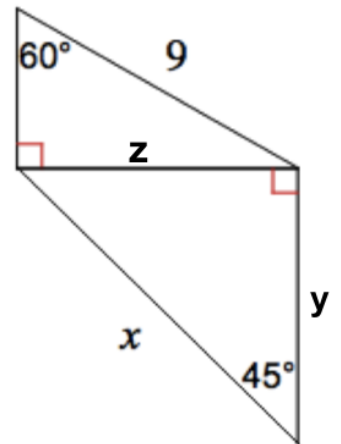
$x = \underline{\hspace{1cm}}$   $y = \underline{\hspace{1cm}}$   $z = \underline{\hspace{1cm}}$  SUM  $\approx$   $\underline{\hspace{1cm}}$

11)



$x = \underline{\hspace{1cm}}$   $y = \underline{\hspace{1cm}}$   $z = \underline{\hspace{1cm}}$  SUM  $\approx$   $\underline{\hspace{1cm}}$

12)



$x = \underline{\hspace{1cm}}$   $y = \underline{\hspace{1cm}}$   $z = \underline{\hspace{1cm}}$  SUM  $\approx$   $\underline{\hspace{1cm}}$