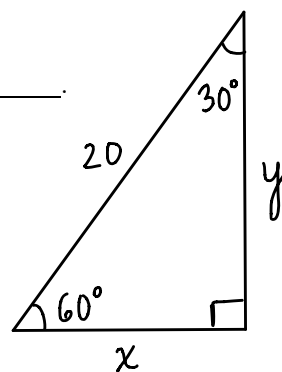# Video Quiz 3

1. The circle given by $x^2 + y^2 = 49$ has a radius $r =$ _____.

2. The circle given by $x^2 + y^2 = 9$ has its center at the point _____.

   a. (0,0)
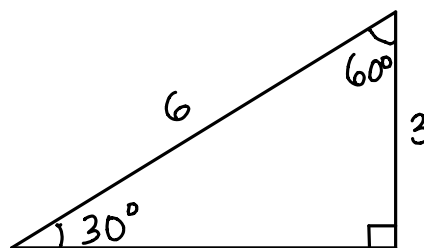   b. (3,0)
   c. (0,3)
   d. (-3,0)
   e. (0,-3)

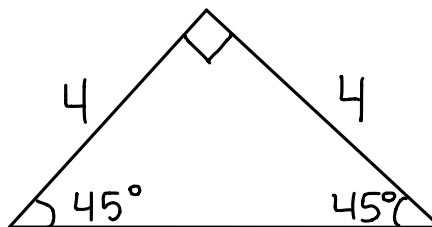3. In the given triangle below, the missing side length $x =$ _____.

4. In the given triangle below, the missing side length is given by which of the following?

   a. $3\sqrt{3}$
   b. $6\sqrt{3}$
   c. 3
   d. $3\sqrt{2}$

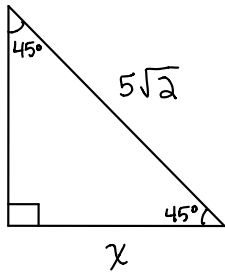

5. In the given triangle below, the missing side length is given by which of the following?
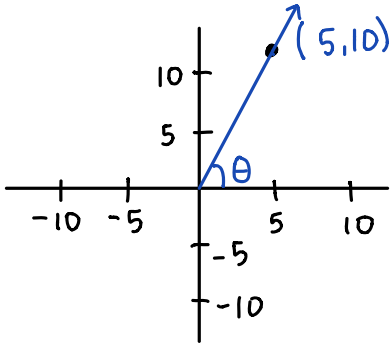
   a. $\dfrac{4}{\sqrt{2}}$
   b. $\dfrac{4}{\sqrt{3}}$
   c. $4\sqrt{2}$
   d. $4\sqrt{3}$

6. In the given triangle below, the missing side length $x = $_____.

7. Consider the point $P = (5, 12)$. Find the exact value of each of the trigonometric functions if the terminal side of the angle θ contains the point P.

8. Consider the point $P = (-6, 8)$. Find the exact value of each of the trigonometric functions if the terminal side of the angle θ contains the point P.