Lesson 7 Practice   Name: _____

1. Which is an equation of a line perpendicular to the line whose equation is $y = \frac{1}{3}x - 5$?

    A. $y = \frac{1}{3}x + 5$ B. $y = -\frac{1}{3}x - 5$ C. $y = -3x - 5$ D. $y = 3x + 5$

2. The graph of the equation $y = \frac{1}{3}x + 2$ is perpendicular to the graph of the equation

    A. $y = \frac{1}{3}x + 5$ B. $3y = x + 2$ C. $y = 3x + 5$ D. $y = -3x + 2$

3. What is an equation of the line that contains the point $(3, -1)$ and is perpendicular to the line whose equation is $y = -3x + 2$?

4. The equation of a line is $y = \frac{2}{3}x + 5$. What is an equation of the line that is perpendicular to the given line and that passes through the point $(4, 2)$?

5. Find an equation of the line passing through the point $(6, 5)$ and perpendicular to the line whose equation is $2y + 3x = 6$.

6. Which equation represents the line that is perpendicular to $2y = x + 2$ and passes through the point $(4, 3)$?

    A. $y = \frac{1}{2}x - 5$ B. $y = \frac{1}{2}x + 1$ C. $y = -2x + 11$ D. $y = -2x - 5$

7. Which equation represents the line parallel to the y-axis and 4 units to the left of the y-axis?

    A. $x = 4$ B. $x = -4$ C. $y = -4$ D. $y = 4$

8.   Which is an equation of the line that is parallel to the *x*-axis and that passes through the point $(5, 3)$?

   A. $x = 5$ B. $y = 5$ C. $x = 3$ D. $y = 3$

9.   What is an equation of the straight line that passes through point $(-2, 7)$ and is perpendicular to the *x*-axis?

10.   Which is an equation of the line that passes through the point $(2, 5)$ and is parallel to the *x*-axis?

   A. $x = 2$ B. $y = 2$ C. $x = 5$ D. $y = 5$

Lesson 7 Practice   7/19/2017

1.
Answer: C

2.
Answer: D

3.
Answer: $y = \frac{1}{3}x - 2$

4.
Answer: $y = -\frac{3}{2}x + 8$

5.
Answer: $y - 5 = \frac{2}{3}(x - 6)$

6.
Answer: C

7.
Answer: B

8.
Answer: D

9.
Answer: $x = -2$

10.
Answer: D