Lesson 6: Practice **Name:** _____

1. Which is an equation of a line that is parallel to the line whose equations is $y = 3x + 7$.

   A. $y = -\frac{1}{3}x + 6$ B. $y = -3x + 6$ C. $y = \frac{1}{3}x - 5$ D. $y = 3x - 5$

2. The lines represented by the equations $y + \frac{1}{2}x = 4$ and $3x + 6y = 12$ are

3. The graph of the equation $x - 3y = 6$ is parallel to the graph of

   A. $y = -3x + 7$ B. $y = -\frac{1}{3}x + 5$ C. $y = 3x - 8$ D. $y = \frac{1}{3}x + 8$

4. What is an equation of the line that passes through the point $(-2, 3)$ and is parallel to the line whose equation is $y = \frac{3}{2}x - 4$?

5. What is an equation of the line that passes through the point $(7, 3)$ and is parallel to the line $4x + 2y = 10$?

6. Write an equation of the line that passes through the point $(6, -5)$ and is parallel to the line whose equation is $2x - 3y = 11$.

7. Which equation represents a line that is parallel to the line whose equation is $y = x + 4$?

A. $y + x = 1$ B. $y - 4 = -x$ C. $y = -x - 1$ D. $y = x - 4$

8. The graph of which equation would *not* be parallel to the graph of the equation $y = 3x + 3$?

A. $y = 3x$ B. $2y = 6x + 2$ C. $y - 3x = 4$ D. $y = 2x + 3$

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1.
Answer: D

2.
Answer: parallel

3.
Answer: D

4.
Answer: $y = \frac{3}{2}x + 6$

5.
Answer: $y = -2x + 17$

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

7.
Answer: D

8.
Answer: D