Equations of Parallel Lines Quiz

1. What is the slope of a line parallel to this equation: $y = \frac{1}{3}x + 3$?

a) 3

b) $\frac{1}{3}$

c) $-\frac{1}{3}$

d) -3

2. Determine the slope of the line parallel to line $4x - 2y = 6$.

a) 2

b) 3

c) -4

d) 6

3. Find the equation of the line parallel to the line $y = -\frac{1}{4}x - 1$ passing through $(4, 5)$.

a) $y = -\frac{1}{4}x + 2$

b) $y = 4x + 6$

c) $y = -\frac{1}{4}x + 4$

d) $y = -\frac{1}{4}x + 6$

4. The equations $y = -2x + 4$ and $-6x - 3y = -24$ are parallel.

a) *True*

b) *False*

5. Find the equation of the line parallel to the line passing through two points $(0, 0)$ and $(4, 3)$.

a) $y = \frac{1}{2}x + 4$

b) $y = 3x + 2$

c) $y = -4x - 3$

d) $y = \frac{3}{4}x - 8$

6. The equations $2x - 4y = -16$ and $2y = -x + 2$ are parallel.

a) *True*

b) *False*

7. Determine the slope of the line parallel to $y - 4 = 2(x + 3)$.

a) 2

b) $\frac{1}{4}$

c) 10

d) 3

8. Which of the following equation is parallel to the line $5x - 3y = 6$

a) $10x - 6y = -24$

b) $10x + 6y = 14$

c) $2x - 3y = 4$

d) $5x + 6y = 3$

9. Determine the slope of the line parallel to $x = 4$.

a) 1

b) -1

c) 0

d) *undefined*

10. Which of the following equations is parallel to line $y = \frac{1}{5}x + 2$?

a) $y = -5x - 3$

b) $2x - 10y = 40$

c) $5x - 3y = -6$

d) $x + 4y = -2$