

Equations of Perpendicular Lines Quiz

- What is the slope of a line perpendicular to this equation:
 $y = 2x + 1$?
 - 2
 - 2
 - $-\frac{1}{2}$
 - $\frac{1}{2}$
- Determine the slope of the line perpendicular to line $3x - y = 9$.
 - $\frac{1}{3}$
 - $-\frac{1}{3}$
 - 3
 - 3
- Find the equation of the line perpendicular to the line $y = -\frac{1}{2}x + 3$ passing through (6, 8).
 - $y = -\frac{1}{2}x - 3$
 - $y = 2x + 4$
 - $y = 2x - 4$
 - $y = -\frac{1}{2}x + 11$
- The equations $3x - 2y = 5$ and $6x + 4y = 3$ are perpendicular.
 - True*
 - False*
- Find the equation of the line perpendicular to the line passing through two points (1,3) and (5,2).
 - $y = \frac{1}{4}x + 2$
 - $y = 4x + 6$

c) $y = -4x + 2$

d) $y = -\frac{1}{4}x - 8$

6. The equations $y = 4x + 1$ and $x + 4y = 16$ are perpendicular.

a) *True*

b) *False*

7. Determine the slope of the line perpendicular to $y + 2 = \frac{1}{5}(x - 6)$.

a) 2

b) -6

c) $\frac{1}{5}$

d) -5

8. Which of the following equation is perpendicular to the line
 $8x + 2y = 4$

a) $2x - 8y = -16$

b) $4x + 6y = 2$

c) $2x - 4y = -12$

d) $3x + 9y = 3$

9. Determine the slope of the line perpendicular to $x = -2$.

a) 1

b) -1

c) 0

d) *undefined*

10. Which of the following equations is perpendicular to line
 $y = \frac{1}{3}x - 5$?

a) $y = -6x + 2$

b) $6x - 2y = -4$

c) $6x + 2y = 4$

d) $3x + 2y = -8$