

## Slope of a Line Quiz PDF

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**Describe the relationship between the slopes of two perpendicular lines.**

**Explain how to determine the slope of a line given two points on the line.**

**If a line has an undefined slope, which of the following is true?**

- The line is horizontal.
- The line is vertical.
- The line has a positive slope.
- The line has a negative slope.

**Explain why a vertical line has an undefined slope.**

Which of the following represent a line with an undefined slope?

- $x = 4$
- $y = 4$
- $x = -2$
- $y = -2$

What is the slope of the line represented by the equation  $y = -3x + 4$ ?

- 3
- 3
- 4
- 4

Provide a real-world example where understanding the slope of a line is useful.

What is the slope of a line parallel to the line  $y = \frac{1}{2}x - 3$ ?

- $\frac{1}{2}$
- 2
- 2
- $-\frac{1}{2}$

Which of the following lines has a zero slope?

- $x = 5$
- $y = 5$
- $y = 2x + 3$
- $x = -3$

**What is the slope of a line that passes through the points (2, 3) and (4, 7)?**

- 2
- 3
- 4
- 5

**Which of the following points lie on the line with the equation  $y = 2x + 3$ ?**

- (0, 3)
- (1, 5)
- (2, 7)
- (3, 9)

**What are the characteristics of a line with a negative slope?**

- The line rises from left to right.
- The line falls from left to right.
- The line is horizontal.
- The line is vertical.

**What is the slope of a line that passes through the origin and the point (3, 9)?**

- 1
- 2
- 3
- 4

**Which line is perpendicular to the line  $y = 4x + 1$ ?**

- $y = -1/4x + 2$
- $y = 4x - 3$
- $y = 1/4x + 5$
- $y = -4x + 6$

**If two lines are parallel, which of the following statements are true?**

- They have the same slope.
- They intersect at one point.
- They never intersect.
- Their slopes are negative reciprocals.

**Which of the following equations has a slope of 0?**

- $y = 5$
- $x = 5$
- $y = 2x + 5$
- $x = 2y + 5$

**Which of the following equations represent lines with a positive slope?**

- $y = -2x + 1$
- $y = 3x - 4$
- $y = 1/2x + 5$
- $y = -x + 2$

**How does the slope of a line affect its appearance on a graph?**

**Discuss the significance of the slope-intercept form of a linear equation and how it can be used to graph a line.**

**What are the possible slopes of a horizontal line?**

- 0
- Undefined
- Positive
- Negative