

Slope-Intercept Form Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. The slope-intercept form of the linear equation is:

- a. $y = x + mb$
- b. $my = x + b$
- c. $y = mx + b$
- d. None of these

2. The point where a line intersects the y-axis is called:

- a. x-intercept
- b. y-intercept
- c. z-intercept
- d. None of these

3. The slope of a vertical line is:

- a. zero
- b. undefined
- c. 1
- d. None of these

4. The slope formula is given as:

- a. $\text{Slope } m = \frac{y_2 - y_1}{x_2 - x_1}$
- b. $\text{Slope } m = \frac{x_2 - x_1}{y_2 - y_1}$
- c. $\text{Slope } m = x_2 - x_1$
- d. $\text{Slope } m = y_2 - y_1$

Part B Instructions: Answer the question below.

5. Write an equation in slope-intercept form of the line that passes through the given points.

$(0, -1)$ and $(5, 6)$

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Part B Instructions: Answer the question below.

5. Write an equation in slope-intercept form of the line that passes through the given points.

$(0, -1)$ and $(5, 6)$

$$Slope\ m = \frac{6 - (-1)}{5 - 0} = \frac{7}{5}$$

$$y = mx + b \rightarrow 6 = \frac{7}{5}(5) + b$$

$$b = -1$$

$$y = \frac{7}{5}x - 1$$