

Rate of Change and Slope Exit Quiz

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

1. The rate of change represents a relationship between:

- a. Constant quantities
- b. Changing quantities
- c. Flexible quantities
- d. None of these

2. In the slope formula, rise represents a change in:

- a. x-dimensions
- b. y-dimensions
- c. z-dimensions
- 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. Find the slope of the line passing through the points (8,-4) and (-6,-3).