

### Quiz 1.5: Forms of Linear Equations

**Multiple Choice:** Choose the letter that corresponds to the correct answer. Write the answer in your answer sheet.

- Which formula can be used to find the slope if two points are given?  
A.  $m = \frac{\text{rise}}{\text{run}}$       B.  $y = mx + b$       C.  $Ax + By = C$       D.  $m = \frac{y_2 - y_1}{x_2 - x_1}$
- If the graph of a line is given, which formula can be used to find the slope?  
A.  $m = \frac{\text{rise}}{\text{run}}$       B.  $y = mx + b$       C.  $Ax + By = C$       D.  $m = \frac{y_2 - y_1}{x_2 - x_1}$
- Graphing linear equations can be done using any of these methods except:  
A. Using two points      C. Using two slopes  
B. Using the x- and y-intercepts      D. Using the slope and a point
- What is the slope of a vertical line?  
A. Negative number      B. Positive number      C. Undefined      D. Zero
- The steepness of a line is called:  
A. Intercept      B. Origin      C. Slope      D. Trend
- What is the trend of a line with zero slope?  
A. Increasing      B. Decreasing      C. Horizontal      D. Vertical
- What is the slope of the line with the equation  $y = 3x + 2$ ?  
A. 1      B. 2      C. 3      D.  $\frac{3}{2}$
- How do we find the x-intercept given the equation of a line?  
A. Let  $a = 0$ .      B. Let  $b = 0$ .      C. Let  $x = 0$ .      D. Let  $y = 0$ .
- Which of the following linear equations is written in the standard form?  
A.  $\frac{2}{3}x + y = 2$       B.  $2x + 3y = 4$       C.  $3x = 2$       D.  $-2y = 5$
- In the slope-intercept form of linear equation  $y = mx + b$ , what does  $b$  represent?  
A. b-intercept      B. Slope      C. x-intercept      D. y-intercept
- What is the standard form of the line with the equation  $y = \frac{1}{2}x + 3$ ?  
A.  $x + 2y = 6$       B.  $x - 2y = 6$       C.  $x + 2y = -6$       D.  $x - 2y = -6$
- Find the slope of the line passing through  $(-2, -4), (0, 3)$ .  
A.  $\frac{1}{2}$       B.  $\frac{3}{2}$       C.  $\frac{5}{2}$       D.  $\frac{7}{2}$
- Determine the trend of the line defined by  $y = -3x + 7$ .  
A. Increasing      B. Decreasing      C. Horizontal      D. Vertical
- Rewrite the equation  $y = 3x - 8$  in the form  $Ax + By = C$ .  
A.  $3x + y = -8$       B.  $3x - y = -8$       C.  $3x + y = 8$       D.  $3x - y = 8$
- Rewrite the equation  $x + 2y = 4$  in the form  $y = mx + b$   
A.  $y = -\frac{1}{2}x + 2$       B.  $y = \frac{1}{2}x + 2$       C.  $y = -\frac{1}{2}x - 2$       D.  $y = \frac{1}{2}x - 2$

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