Name: _____ Period: _____ Date: _____

Point-Slope Form Exit Quiz

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

1. **The point-slope form of a linear equation is:**

   a. $y - x_1 = m(x - y_1)$
   b. $y - y_1 = m(x - x_1)$
   c. $y = mx + b$
   d. None of these

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

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

3. **The slope of a horizontal line is:**

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

4. **The slope formula is given as:**

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

Part B Instructions: Answer the question below.

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

$$(\mathbf{4}, \mathbf{0}), (-\mathbf{2}, \mathbf{1})$$

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

$$(4, 0), (-2, 1)$$

$$\boldsymbol{Slope\ m = \frac{1-0}{-2-4} = -\frac{1}{6}}$$

Put $(4, 0)$ in $y - y_1 = m(x - x_1)$:

$$\boldsymbol{y - 0 = -\frac{1}{6}(x - 4)}$$

$$\boldsymbol{y = -\frac{1}{6}x - \frac{2}{3}}$$