

Review Grade 9 The Equation of a Line ($y = mx + b$)**What do we know:**

- Slope - a measure of the steepness of a line

$$m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

- y-intercept - the point where the line crosses the y-axis
- The equation of a line can be written in slope y-intercept form:

$$y = mx + b$$

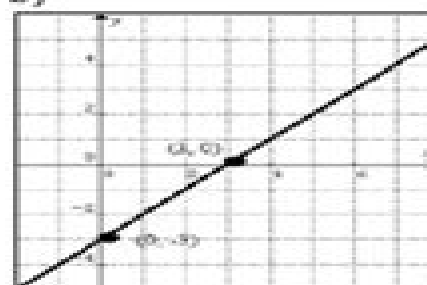
where m is the **slope** of the line
 b is the **y-intercept** of the line

Example: Identify the slope and the y-intercept of each linear relation. Use these values to write the equation of the line.

a)



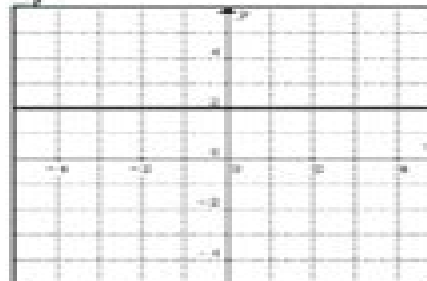
b)



c)



d)

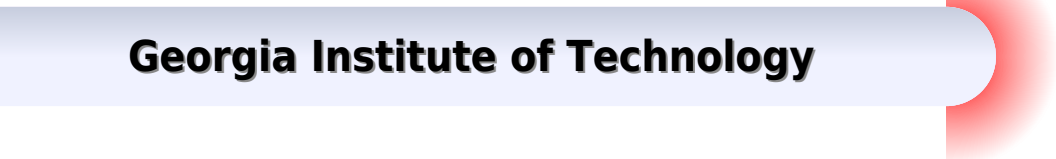


A vertical line is written in the form _____ where a is the x-intercept.
 The slope of a vertical line is _____.

A horizontal line is written in the form _____ where b is the y-intercept.
 The slope of a horizontal line is _____.

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