

**Lesson Objectives** (p. 105):

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**Vocabulary**

1. Linear function (p. 105): \_\_\_\_\_  
\_\_\_\_\_
2. Slope (p. 106): \_\_\_\_\_  
\_\_\_\_\_
3. y-intercept (p. 106): \_\_\_\_\_  
\_\_\_\_\_
4. x-intercept (p. 106): \_\_\_\_\_  
\_\_\_\_\_
5. slope-intercept form (p. 107): \_\_\_\_\_  
\_\_\_\_\_

**Lesson Objectives** (p. 105):

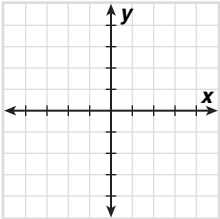
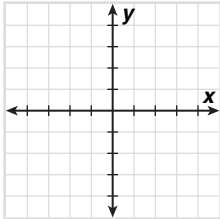
determine whether a function is linear; graph a linear function given two points, a table, an equation, or a point and a slope.

**Vocabulary**

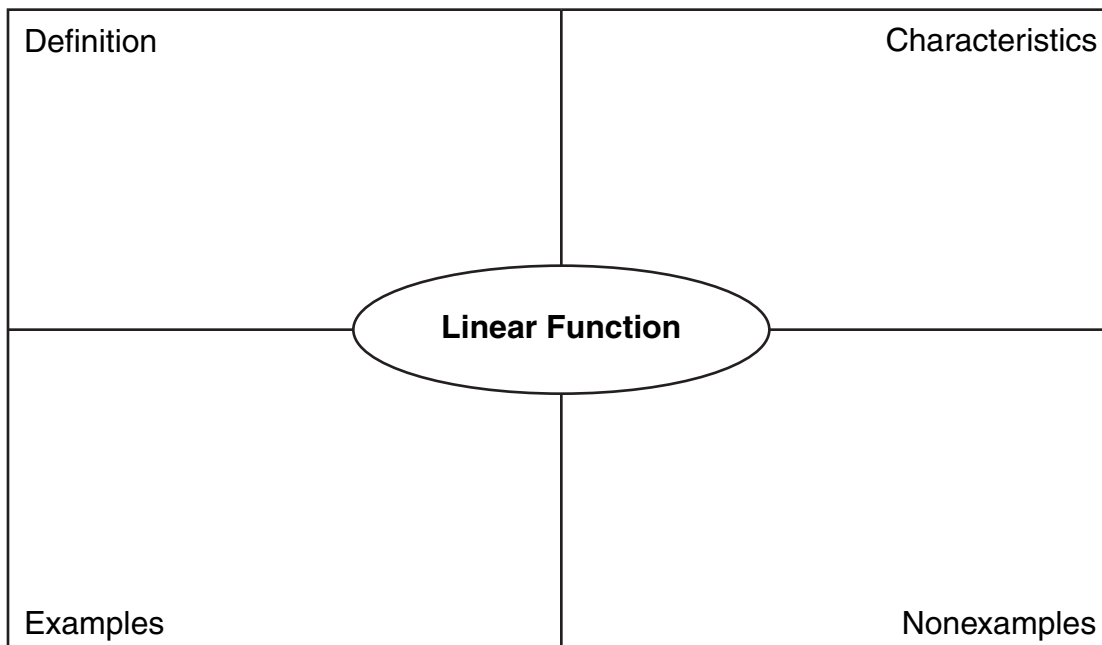
1. Linear function (p. 105): a function with a constant rate of change.
2. Slope (p. 106): the ratio  $\frac{\text{change in } f(x)}{\text{change in } x}$ , or  $\frac{\text{rise}}{\text{run}}$  of a linear function.
3. y-intercept (p. 106): the y-coordinate of a point where the line crosses the x-axis.
4. x-intercept (p. 106): the x-coordinate of a point where the line crosses the y-axis.
5. slope-intercept form (p. 107): a linear function written in the form  $y = mx + b$ , where  $m$  is the slope of the functions graph, and  $b$  is the y-intercept.

### Key Concepts

6. Vertical and Horizontal Lines (p.108):

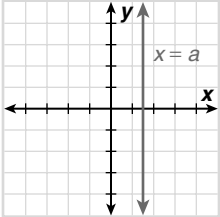
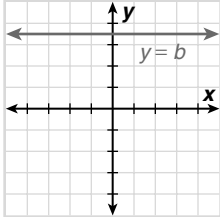
VERTICAL LINES	HORIZONTAL LINES
	

7. **Get Organized** Complete the graphic organizer for linear functions. (p. 109).



**Key Concepts**

6. Vertical and Horizontal Lines (p.108):

VERTICAL LINES	HORIZONTAL LINES
<p>The line <math>x = a</math> is a vertical line at <math>a</math>.</p> 	<p>The line <math>y = b</math> is a horizontal line at <math>b</math>.</p> 

7. **Get Organized** Complete the graphic organizer for linear functions. (p. 109).

