



Quiz for Lessons 5-1 Through 5-5

Identifying Linear Functions

Tell whether the given ordered pairs satisfy a linear function. Explain.

1.	x	-2	-1	0	1	2
	у	1	0	1	4	9

2.
$$\{(-3, 8), (-2, 6), (-1, 4), (0, 2), (1, 0)\}$$



2 Using Intercepts

3. A baby pool that held 120 gallons of water is draining at a rate of 6 gal/min. The function f(x) = 120 - 6x gives the amount of water in the pool after *x* minutes. Graph the function and find its intercepts. What does each intercept represent?

Use intercepts to graph the line described by each equation.

4. 2x - 4y = 16 **5.** -3y + 6x = -18 **6.** y = -3x + 3



 (\checkmark)

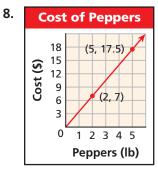
Rate of Change and Slope

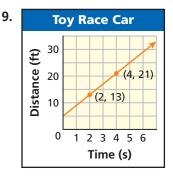
7. The chart gives the amount of water in a rain gauge in inches at various times. Graph this data and show the rates of change.

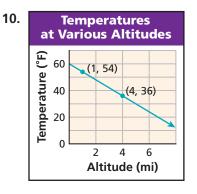
Time (h)	1	2	3	4	5	
Rain (in.)	0.2	0.4	0.7	0.8	1.0	

5-4 The Slope Formula

Find the slope of each line. Then tell what the slope represents.







5-5 Direct Variation

Tell whether each relationship is a direct variation. If so, identify the constant of variation.

11.	x	1	4	8	12	12. <u>x</u>	-	-6	-2	0	3
	у	3	6	10	14	У	-	-3	-1	0	1.5

13. The value of *y* varies directly with *x*, and y = 10 when x = 4. Find *x* when y = 14.