

**Slope and Slope-Intercept Equations Practice**

**1. Find the slope for each set of points.**

***A*** =  $(-9, 0)(-9, 6)$

***B*** =  $(-9, 8)(-7, 6)$

***C*** =  $(-6, 5)(-3, 7)$

***D*** =  $(-2, 2)(-1, -3)$

***E*** =  $(3, 5)(9, 7)$

***F*** =  $(2, 2)(6, 2)$

**2. Write the equation for each line using your answers to #1 with an ordered pair**

**Equation A:**

**Equation B:**

**Equation C:**

**Equation D:**

**Equation E:**

**Equation F:**

3. Determine whether or not each relation is a function. If it isn't, explain why. Then find the domain and range for each and write it using interval notation.

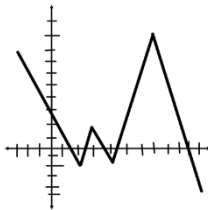
a.  $\{(3,2), (1, -1), (2, -4), (3, -9), (4, -16)\}$

Function? Y or N

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

b.

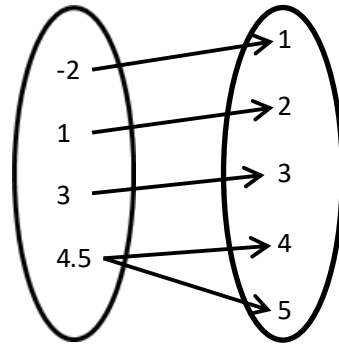


Function? Y or N

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

c.



Function? Y or N

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

4. Evaluate the following expressions given the functions below.

$$f(x) = 14x - 3$$

$$g(x) = \frac{1}{2}x + 5$$

$$p(x) = x^2 + 8$$

$$q(x) = 3x^2 - 8$$

$$f(2) =$$

$$f(-9) =$$

$$g(6) =$$

$$g(-8) =$$

$$p(-5) =$$

$$q(5) =$$

$$\text{find } x \text{ if } f(x) = 95$$

$$\text{find } x \text{ if } g(x) = 7$$

$$\text{find } x \text{ if } p(x) = 33$$