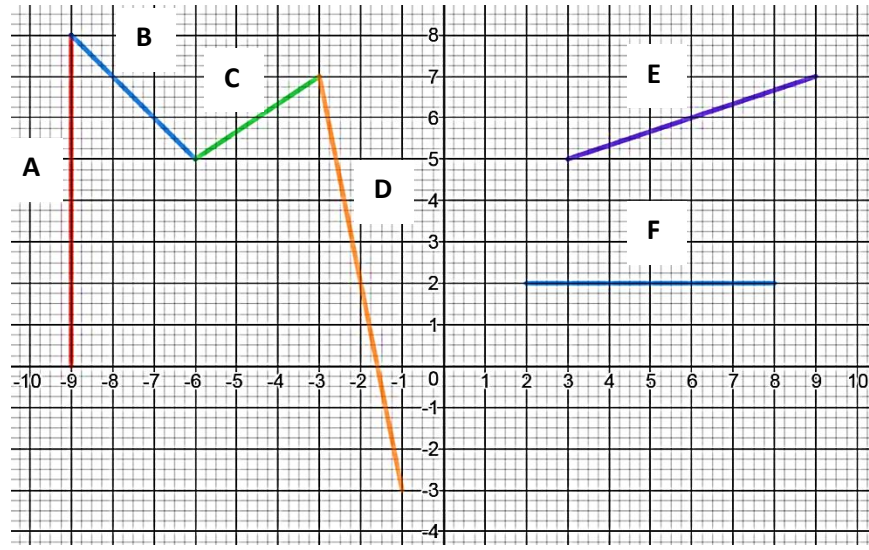## Slope and Slope-Intercept Equations Practice

1. **Find the slope for each line by choosing two ordered pairs on the line**

   $A =$ $B =$ $C =$

   $D =$ $E =$ $F =$

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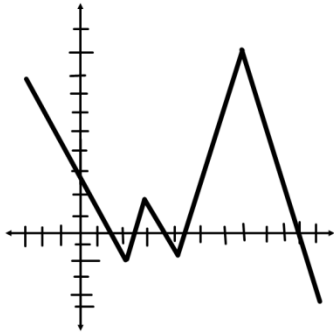
   a. {(3,2), (1, -1), (2, -4), (3, -9), (4, -16)}

   Function?   Y   or   N

   Domain: _____

   Range: _____
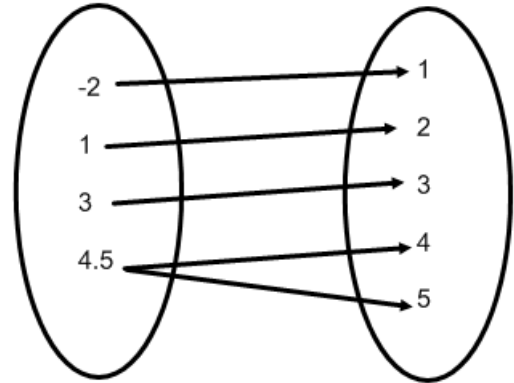
   c.

   Function?   Y   or   N

   Domain: _____

   Range: _____

   b.

   Function?   Y   or   N

   Domain: _____

   Range: _____

4. Evaluate the following expressions given the functions below.

$f(x) = 14x - 3$ $\qquad$ $g(x) = \frac{1}{2}x + 5$ $\qquad$ $p(x) = x^2 + 8$ $\qquad$ $q(x) = 3x^2 - 8$

$f(2) =$ $\qquad\qquad\qquad\qquad$ $f(-9) =$ $\qquad\qquad\qquad\qquad$ $g(6) =$

$g(-8) =$ $\qquad\qquad\qquad\qquad$ $p(-5) =$ $\qquad\qquad\qquad\qquad$ $q(5) =$

$find\ x\ if\ f(x) = 95$ $\qquad\qquad$ $find\ x\ if\ g(x) = 7$ $\qquad\qquad$ $find\ x\ if\ p(x) = 33$