"Don't worry about failure, worry about the chances you miss when you don't even try" - Jack Canfield

Monday

1.
$$f(x) = \begin{cases} x+5 & \text{if } x < -2 \\ -4 & \text{if } x \ge -2 \end{cases}$$

$$f(-4) =$$

2.
$$f(x) = \begin{cases} 2x+1 & \text{if } x < 1 \\ -2x+3 & \text{if } x \ge 1 \end{cases}$$

$$f(-2) = f(6) =$$

$$f(1) =$$

3.
$$f(x) = \begin{cases} -2x - 4 & \text{if } x \le 2 \\ 4x - 9 & \text{if } x > 2 \end{cases}$$

$$f(-4) =$$

$$f(2) =$$

4.
$$f(x) = \begin{cases} x-1 & \text{if } x \le -2\\ 2x-1 & \text{if } -2 < x \le 4\\ -3x+8 & \text{if } x > 4 \end{cases}$$

$$f(-1) =$$

$$f(-4) =$$

$$f(5) =$$

5.
$$f(x) = \begin{cases} x & \text{if } x \le -1 \\ -x + 4 & \text{if } x > -1 \end{cases}$$

$$f(3) =$$

6.
$$f(x) = \begin{cases} 5 & \text{if } x < -2 \\ \frac{1}{2}x - 6 & \text{if } -2 \le x \le 6 \\ -2x + 10 & \text{if } x > 6 \end{cases}$$

$$f(-4) =$$

$$f(-2) =$$

I.
$$f(x) = 2x - 1$$
 $g(x) = 3x$ $h(x) = x^2 + 1$

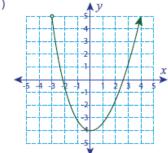
Compute the following:

2.
$$f(h(7))$$

5.
$$g(f(0))$$

6.
$$h(g(-4))$$

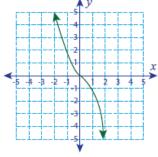
1)



Domain:

Range :

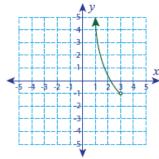
2)



Domain:

Range :

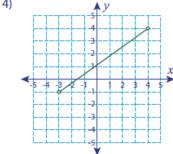
3)



Domain:

Range : ___

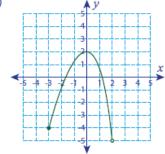
4)



Domain:

Range :

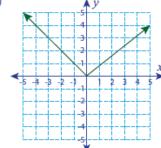
5)



Domain : _____

Range : _____

6)



Domain : _____

Range : _____

Thursday:

Identify the parent function and the transformations of the function below:

$$1. \quad f(x) = -\sqrt{x-4}$$

2.
$$f(x) = 3(x-4)^3 + 5$$

3.
$$f(x) = \sqrt[3]{x+5}$$

4.
$$f(x) = (x+6)^2 + 1$$

5.
$$f(x) = \frac{1}{x+5}$$