

Warm up Week of 3.6.17

Monday:

Identify the domain and range of the following functions:

1. $f(x) = 2^x + 5$

2. $f(x) = \sqrt{x + 8}$

3. $f(x) = -(x - 9)^2 + 3$

Tuesday:

$$f(x) = x^2 + 4x + 5; g(x) = -2x - 9$$

Find:

1. $f(g(x))$

2. $(f \circ g)(3)$

3. $5f(-3) - 2g(1)$

Wednesday:

Identify the transformations from the parent function:

1. $f(x) = x^2; f(x) = (x + 7)^2 - 2$

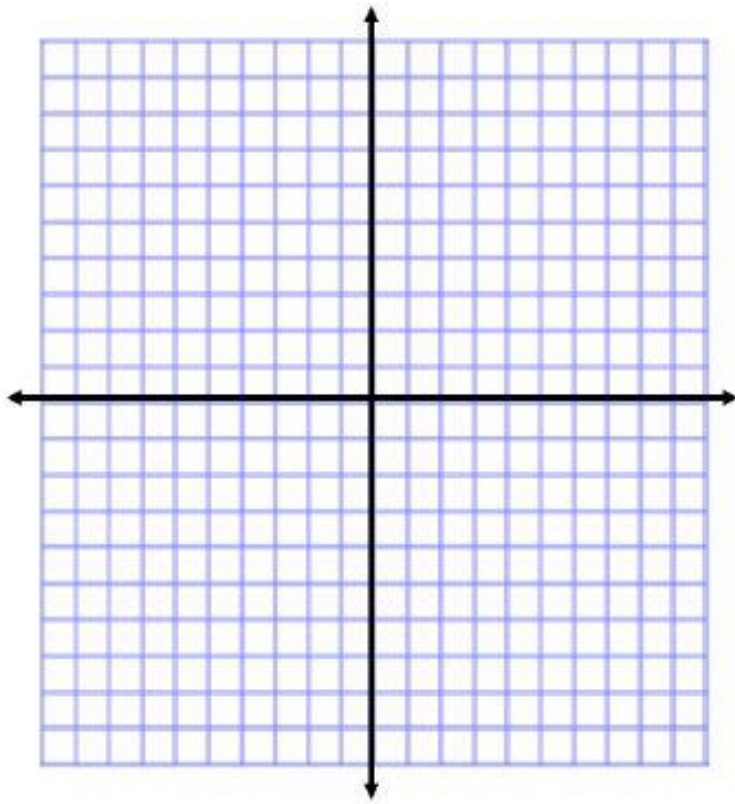
2. $f(x) = 4^x; f(x) = 4^{x-3} + 1$

3. $f(x) = \sqrt{x}; f(x) = -\sqrt{x-2} - 3$

Thursday:

Sketch a graph of this piecewise function: $f(x) = \begin{cases} 2x - 1, & \text{if } x > 3 \\ -x^2 + 2, & \text{if } x \leq 3 \end{cases}$

Coordinate Plane



Friday:

Identify the best fit model for the data: {linear, quadratic, exponential}

9.

x	y
0	-12
1	-11
2	-8
3	-3
4	4

10.

x	y
0	3
1	-2
2	-7
3	-12
4	17

11.

x	y
0	3
1	12
2	48
3	192
4	768