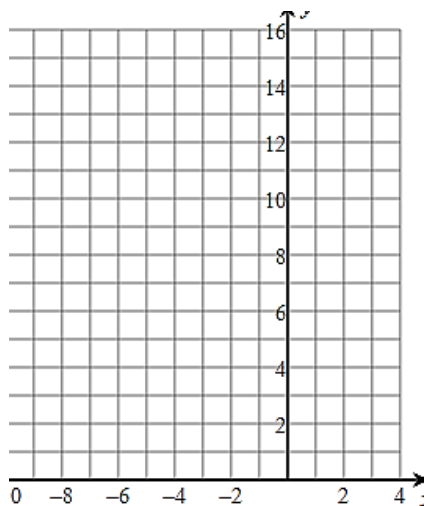


8.1-8.2 Quiz Review

Name _____

Graph each function.

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



Vertex:

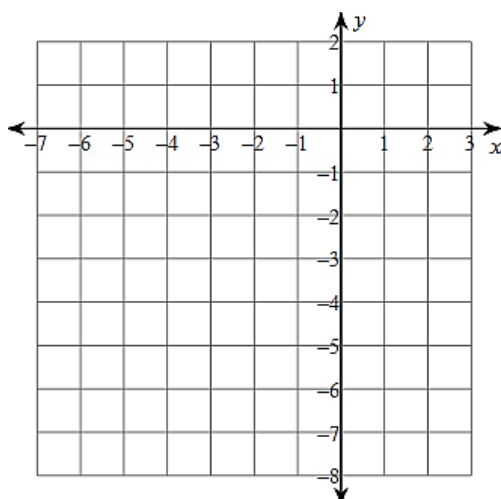
Domain:

Range:

Axis of Symmetry:

Avg ROC over $x \in [1, 4]$:

2. $k(x) = -2(x+2)^2 + 1$



Vertex:

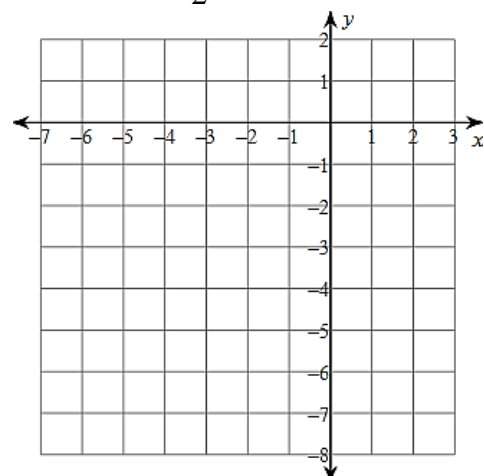
Range:

y – intercept

Opening up or down?

Interval where $k(x)$ is decreasing:

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



Vertex:

Axis of Symmetry:

Avg ROC over $x \in [-5, -2]$

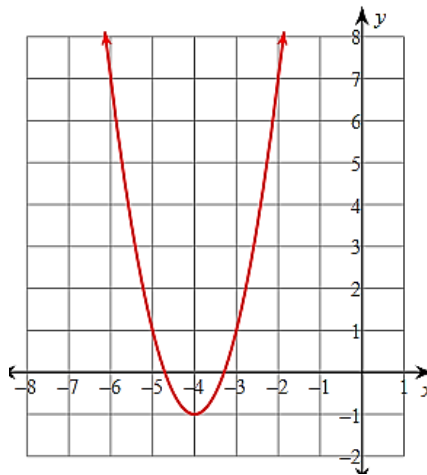
Interval where $f(x)$ is increasing:

2. Write an equation for a quadratic function that has been dilated by a factor of 7, reflected across the x – axis, and moved to the right 23 units.

3. Write an equation for a quadratic function that has been dilated by a factor of $\frac{1}{2}$, translated left 6 and down 8.

Describe the transformations from the quadratic parent function then write the equation for each graph.

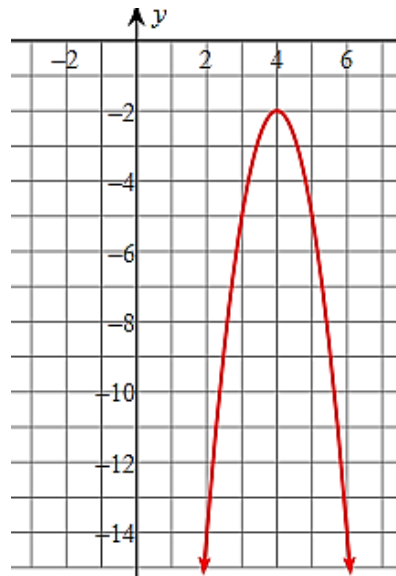
4.



a. Transformations (order matters!):

b. Equation:

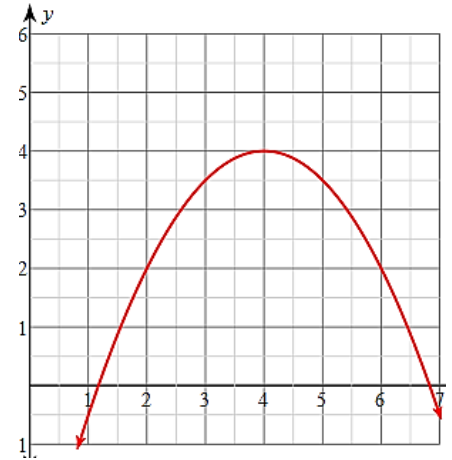
5.



a. Transformations:

b. Equation:

6.



a. Transformations:

b. Equation:

Email me a completed copy of the worksheet. Title the worksheet "8.1-8.2 Worksheet – Your Name."