- 1. What is the parent quadratic function?
- 2. What is the standard form of a quadratic?

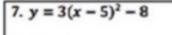
- 3. What is the vertex form of a quadratic?
- 4. What is the intercept form of a quadratic?

5. Write the equation in standard form:

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

6. Write the equation in standard form:

$$y = -3(x-5)(2x+1)$$



Form:

Vertex:

Open Up or Down:

Axis of Symmetry:

Max or Min Value:

Pattern:

Y-Intercept:

Transformation:

Domain:

Range:

8. y	$=2x^2$	-8x	- 4
------	---------	-----	-----

Form:

Vertex:

Open Up or Down:

Axis of Symmetry:

Max or Min Value:

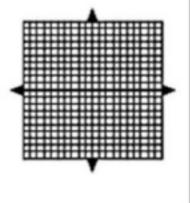
Pattern:

Y-Intercept:

Transformation:

Domain:

Range:



$$9. \ f(x) = -6x^2 + 2$$

Form:

Vertex:

Open Up or Down:

Axis of Symmetry:

Max or Min Value:

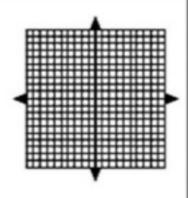
Pattern:

Y-Intercept:

Transformation:

Domain:

Range:



10.
$$y = -(x+3)(x-1)$$

Form:

Vertex:

Open Up or Down:

Axis of Symmetry:

Max or Min Value:

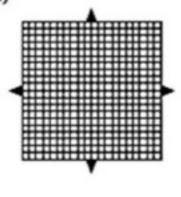
Pattern:

Y-Intercept:

Transfromation:

Domain:

Range:



11. Write the equation of the parabola that has been shifted 3 units right, 2 units down, is vertically compressed by a factor of ¾ and is reflected over the x-axis.