Nama.

Day 3 - Characteristics of Quadratic Functions

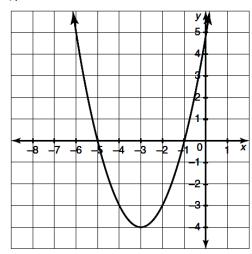
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Practice Assignment

Date:______ Block:_____

Identify all of the characteristics listed for the following graphs.

1.



Domain: _____

Range: _____

Vertex:

Axis of Sym.____

Y-Intercept: _____

Zeroes: _____

Extrema: _____ Int of Inc:

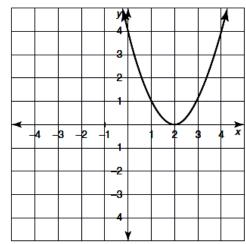
Max/Min Value: _____ Int of Dec:

Positive:

Negative:

End Behavior: As $x \to -\infty$, $f(x) \to -\infty$. As $x \to \infty$, $f(x) \to -\infty$

2.



Domain: _____

Range: _____

Vertex:

Axis of Sym.

Y-Intercept: _____

Max/Min Value: _____

Zeroes: _____

Extrema: _____

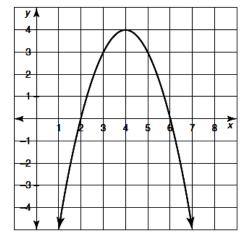
Int of Dec: _____

Int of Inc: Positive:

Negative: ____

End Behavior: As $x \to -\infty$, $f(x) \to$ _____. As $x \to \infty$, $f(x) \to$ _____

3.



Domain: _____

Range: _____

Vertex:

Axis of Sym.

Y-Intercept: _____

Zeroes: _____

Extrema: _____

Max/Min Value: _____

Int of Inc: ____

Int of Dec: ____

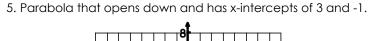
Positive: _____

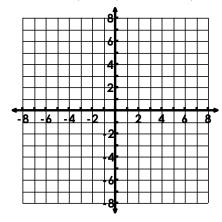
Negative: _____

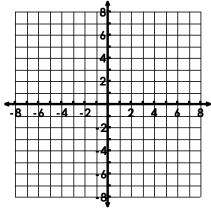
End Behavior: As $x \to -\infty$, $f(x) \to$ _____. As $x \to \infty$, $f(x) \to$ _____

Problems 4 – 9: Use the given description to create a <u>rough sketch</u> of a quadratic function. Your graphs might look different than mine, but they must meet the characteristic described below. Start by placing your characteristics on the graph and create the sketch after that.

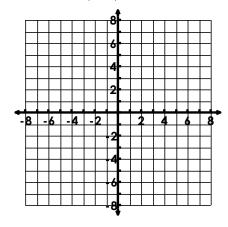
4. Parabola that opens up and has a y-intercept of (0, 5).



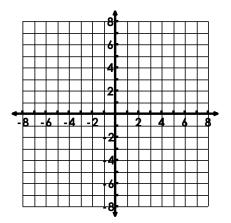




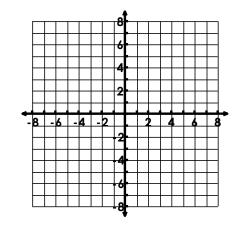
6. Parabola with end behavior that approaches $-\infty$ and has a vertex of (-3, 6).



7. Parabola with a negative part of the graph between $-2 \le x \le 2$.



8. Parabola with a maximum of 3 and zeros of 0 and 4.



9. Parabola with an axis of symmetry of x = -1 and a range of $y \ge -5$.

