

Day 2 Homework

Period _____

Identify which form the quadratic is in. Then find all Key Features that can be found from that particular form, with out doing any conversions. Some could be more than one form.

1) $y = -(x - 6)(x + 8)$

Form:

Key Features:

2) $y = 2x^2 + 24x + 75$

Form:

Key Features:

3) $y = -(x + 4)^2$

Form:

Key Features:

4) $y = -x^2 - 8x - 17$

Form:

Key Features:

5) $y = -(x + 6)^2 - 1$

Form:

Key Features:

6) $y = 4x^2 + 1$

Form:

Key Features:

Graph each quadratic below using AT LEAST 5 points. List:

A) Vertex,

B) Y-intercept,

C) x-intercept(s),

D) any other points used to graph,

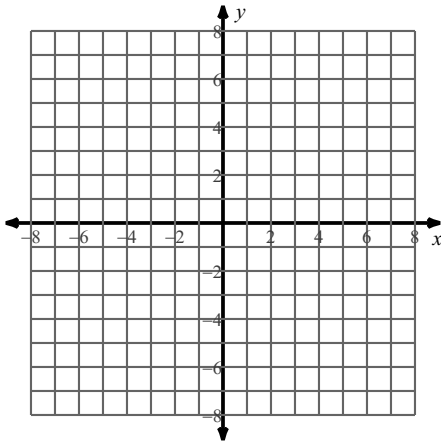
E) axis of symmetry,

F) the domain and

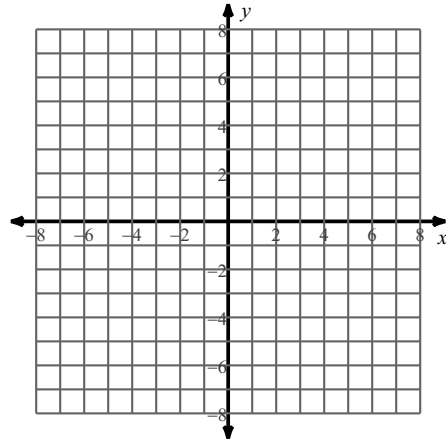
G) range,

H) intervals where the graph is increasing and decreasing. Remember: you will need to do some converting to different forms to find some of the key features.

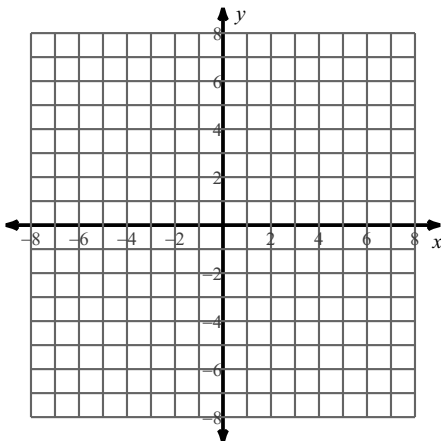
7) $y = \frac{1}{4}x^2 + 4$



8) $y = x(x + 2)$



9) $y = -2(x - 3)^2$



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

