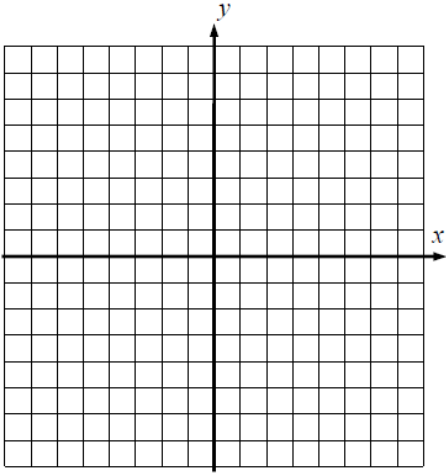


Name: _____
Date: _____
Class: _____

Algebra
Unit 8
HW 8-6

1) Graph: $y = -2x^2 - 8x - 4$



2) How would the graph of $y = 2x^2 + 8x + 4$ look compared to the graph of #1? What would be different and how do you know?

3) What would the axis of symmetry be for: $y = -x^2 + 6x + 1$

4) Over what range is the following function positive? $f(x) = -2x^2 + 12x + 11$

5) What is the maximum value that $y = -x^2 - 10x - 18$ obtains?

6) $C(n) = \frac{1}{500}n^2 - n + 200$ models the cost of computers based on the number manufactured. Is there a maximum cost or minimum cost? Are there any zeroes for this function?

7) Find the zeroes of this $2x^2 + 5x - 12 = 0$ by graphing or by factoring.

8) What are the zeroes of $y = 3x^2 - 6x - 24$? What would it be in factored form?