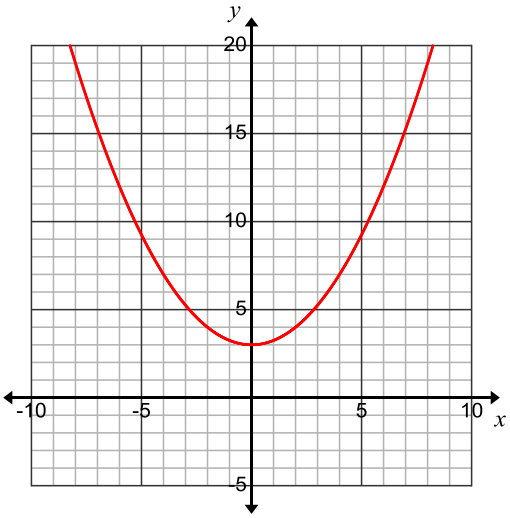
Getting Started

Date: _____

Ex. 1 Complete the following:

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



Vertex _____

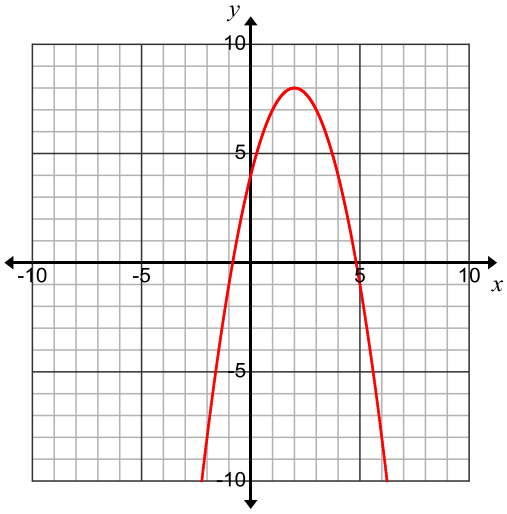
Axis of Symmetry _____

Max/Min Value _____

Domain _____

Range _____

b) $y = -(x-2)^2 + 8$



Vertex _____

Axis of Symmetry _____

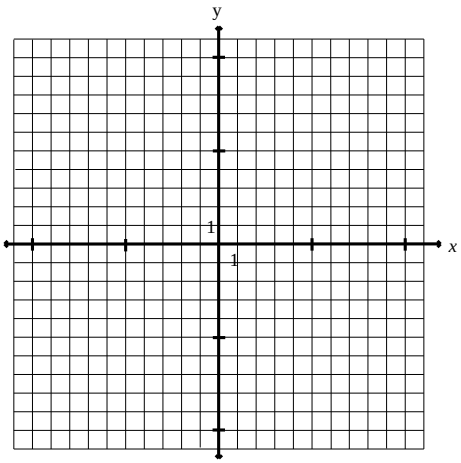
Max/Min Value _____

Domain _____

Range _____

Ex. 2 Sketch the following, and state the intercepts, max/min value, and domain and range.

a) $2x - 3y - 2 = 0$



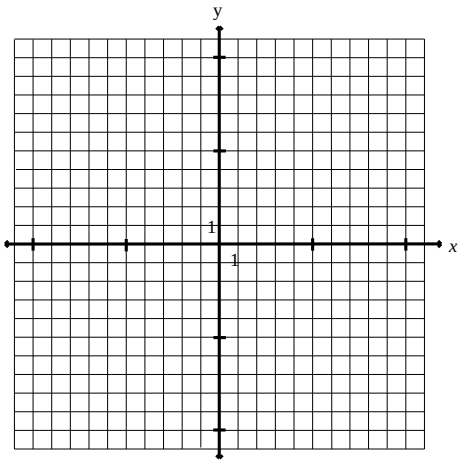
Intercepts _____

Max/Min Value _____

Domain _____

Range _____

b) $y = -x^2 + 9$



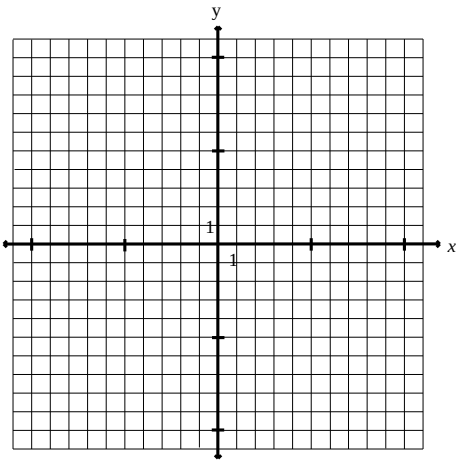
Intercepts _____

Max/Min Value _____

Domain _____

Range _____

c) $y = x^2 + 2x - 3$



Intercepts _____

Max/Min Value _____

Domain _____

Range _____

Ex. 3 State the maximum or minimum value.
What relationship exists between the "a" value of a quadratic equation and the max/min values?

a) $y = (x+1)^2 - 3$

b) $y = -(x-4)^2$

c) $y = -3x^2 + 12x - 8$

Homework: p. 128 # 5 – 8
p. 129 READ (experiment)
Do Questions A – G