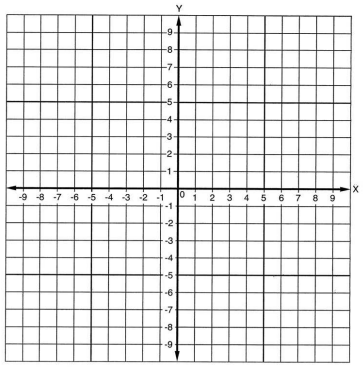
8-3 Notes Graphing Quadratics Name _____
NC Math 1

I. Review – Graph the following equation and label the roots, vertex and AOS.

$Y = 2x^2 - 9x + 2$



Summary:

a is positive:

a is negative:

$|a| > 1$:

$|a| < 1$:

II. Finding Zeros by Graphing

What is a zero?

We can have _____, _____ or _____ zeros.

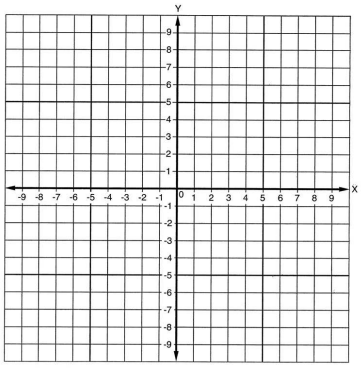
1. Graph $y = x^2 + 2x - 8$

Vertex:

Zeros:

Y-intercept:

AOS:



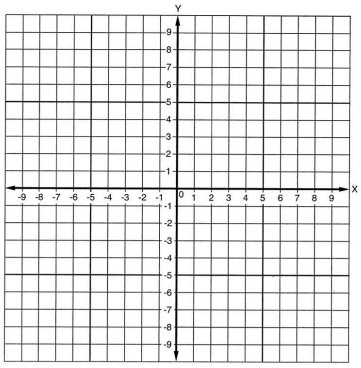
2. Graph $y = x^2 - 4$

Vertex:

Zeros:

Y-intercept:

AOS:



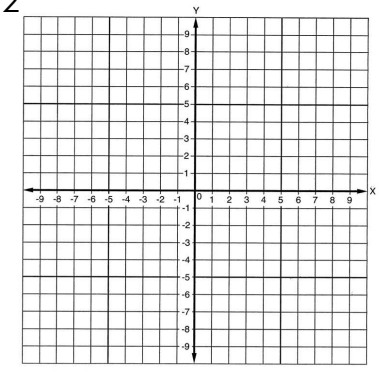
3. Graph $y = -x^2 - 2$

Vertex:

Zeros:

Y-intercept:

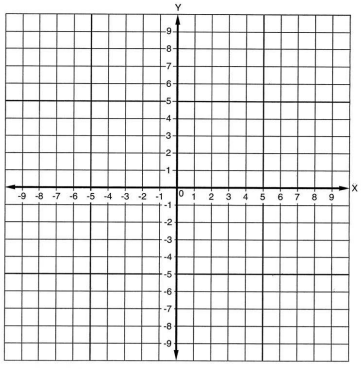
AOS:



4. Graph $y = x^2 + 6x + 9$

Vertex:

Zeros:

Y-intercept:

AOS: