

Name: _____ Hour: _____ Date: _____

Graphing Quadratics in Standard Form Practice II

Graph the following quadratics. Be sure to include five points. Make sure to identify the y-intercept, axis of symmetry, and vertex.

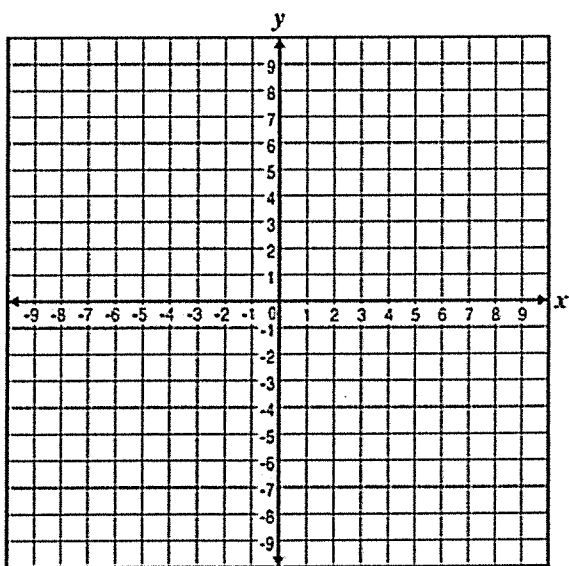
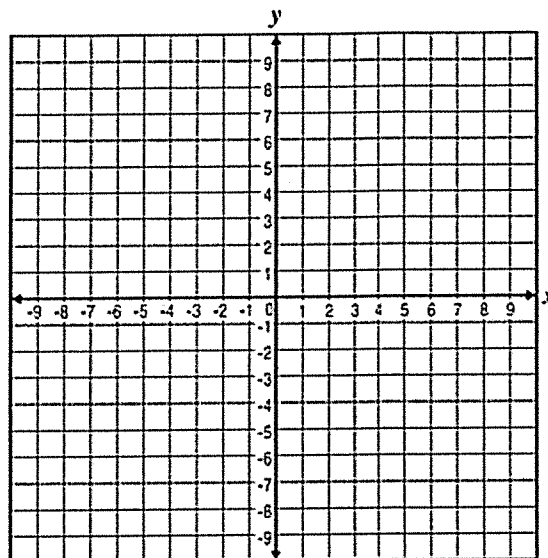
1) $f(x) = x^2 + 2x + 1$

y-intercept:

axis of symmetry:

additional point:

vertex:



2) $f(x) = -x^2 - 2x - 1$

y-intercept:

axis of symmetry:

additional point:

vertex:

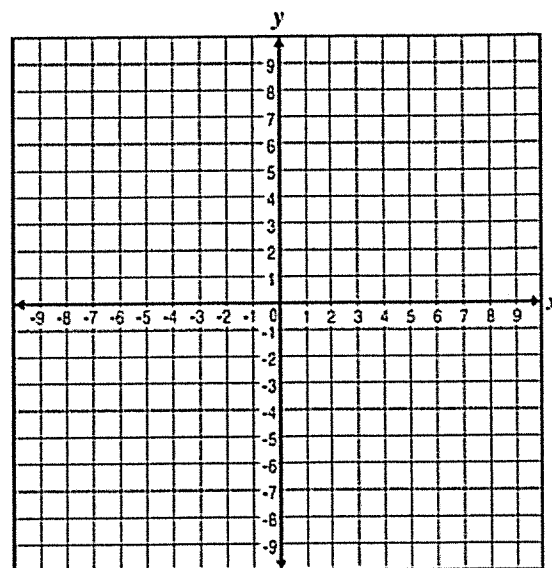
3) $f(x) = -2x^2 + 4x - 4$

y-intercept:

axis of symmetry:

additional point:

vertex:



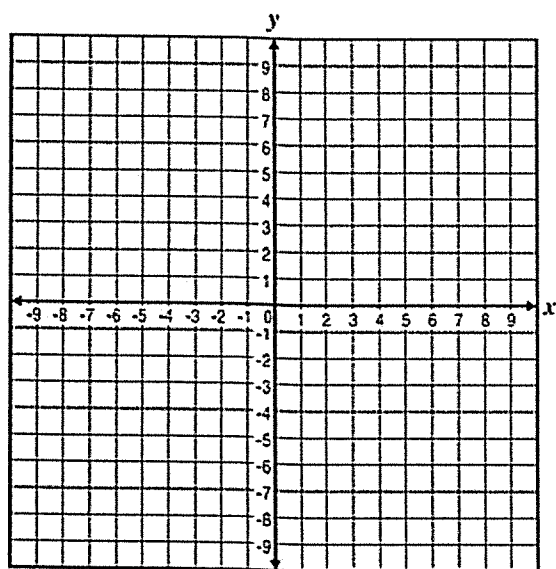
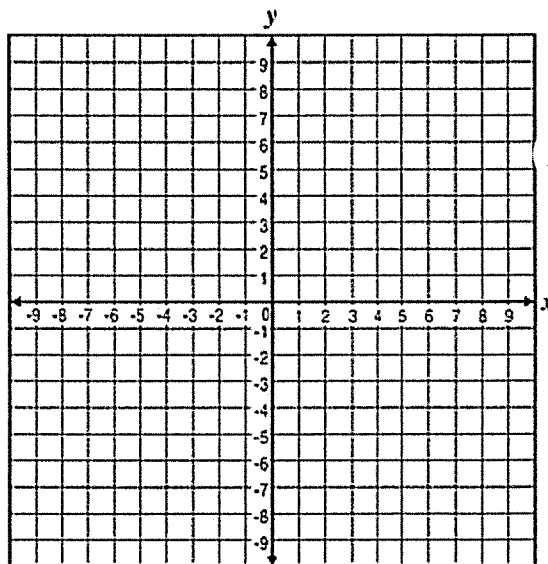
4) $f(x) = 2x^2 + 8x + 5$

y-intercept:

axis of symmetry:

additional point:

vertex:



5) $f(x) = x^2 - 9$

y-intercept:

axis of symmetry:

additional points:

vertex:

SLOT Practice – Quadratic Formula

1) Fill in the blanks to complete the quadratic formula: $x = \frac{-\boxed{} \pm \sqrt{\boxed{}^2 - 4\boxed{}\boxed{}}}{2\boxed{}}$

Use the quadratic formula to solve the following:

2) $4a^2 + 6z - 4 = 0$

3) $3v^2 + v - 1 = 0$