Int Math 2   Name_____ ID: 1

Basic Skills Five

Date_____ Period____

Use COMPLETING THE SQUARE to put the quadratic in VERTEX FORM.

1) $y = 2x^2 + 24x + 69$

Use the information provided to write the vertex form equation of each parabola.

2) Opens up or down, Vertex: $(-3, 3)$, Passes through: $(-1, 11)$

Solve each equation by taking square roots.

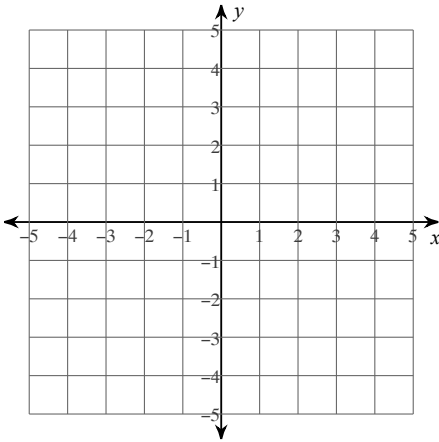3) $b^2 = 49$ 4) $-5r^2 = -40$

5) $3 - 4x^2 = -69$

Identify the x-intercepts of each. Hint - Let "y" = 0 and solve for "x"

6) $y = 2(x + 3)^2 - 8$

Solve each system by graphing.

7) $y = -x + 2$
$y = \dfrac{1}{3}x - 2$

Solve each system by substitution.

8) $y = x - 4$
$y = 2x - 5$