

Standard: Review Test 2

1) Find the y-intercept

a) $y = (x + 4)(x - 5)$

b) $y = 2x^2 + 3x - 8$

c) $y = (2x + 1)(x - 3)$

d) $y = -3x^2 - 4x + 5$

2) Solve by factoring (factoring is the box method).

a) $y = x^2 + 3x - 10$

b) $y = 3x^2 - 16x + 5$

c) $y = x^2 - 16x + 64$

d) $y = 2x^2 - 5x + 2$

3) Solve by using the quadratic formula.

a) $3x^2 + 9x - 12 = 0$

b) $7x^2 = -3x - 12$

c) $4x^2 + 8x + 4 = 0$

d) $x^2 = 3x + 10$

4) Find the Vertex.

a) $y = (x + 2)(x - 4)$

b) $y = 2x^2 - 8x + 12$

c) $y = -x^2 + 6x - 10$

d) $y = (x - 1)(x + 2)$

5) Solve the quadratic, which means find the x-ints.

a) $y = (x + 3)(x - 5)$

b) $y = (2x + 1)(x + 4)$

c) $y = x(4x - 3)$

d) $y = (x - 6)(x + 3)$

6) **Graph** the information and find the **axis of symmetry, min or max value, Opens up or down.**

a) $y = x^2 + 8x + 15$

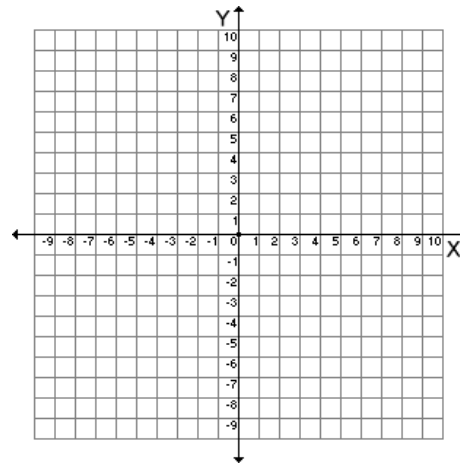
x-int $(-5,0)(-3,0)$

vertex $(-4, -1)$

Axis of Symmetry: _____

Circle: Min or Max: _____

Circle: Opens Up or Opens Down



6) **Graph** the information and find the **axis of symmetry, min or max value, Opens up or down.**

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

x-int $(4,0)(2,0)$

vertex $(3,2)$

Axis of Symmetry: _____

Circle: Min or Max: _____

Circle: Opens Up or Opens Down

