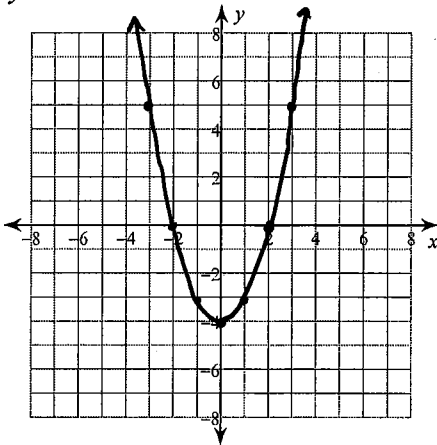


Practice 4.1

Date _____

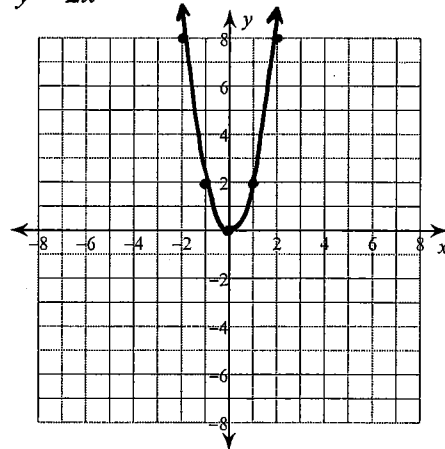
Solve each quadratic equation by graphing.

1) $y = x^2 - 4$



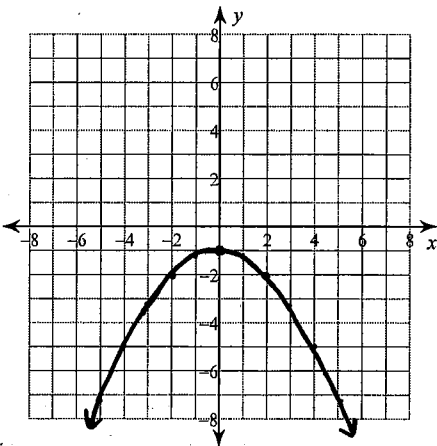
$x = -2, 2$

2) $y = 2x^2$



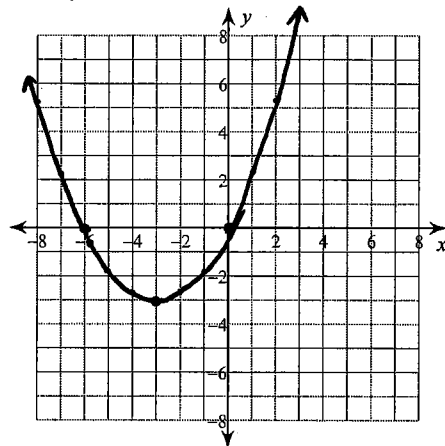
$x = 0$

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



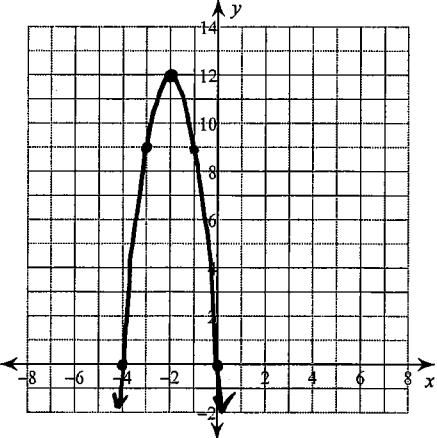
no solution

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



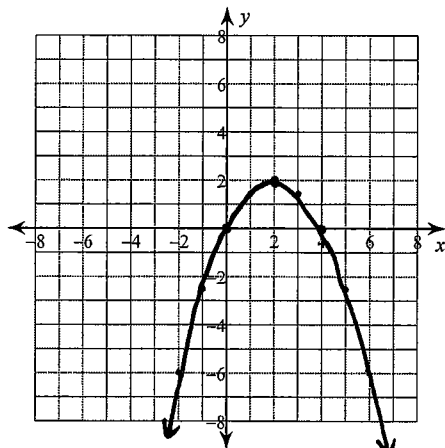
$x = -6, 0$

5) $y = -3(x+2)^2 + 12$



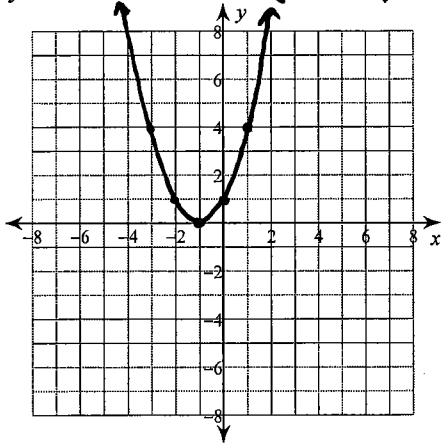
$x = -4, 0$

6) $y = -\frac{1}{2}(x-2)^2 + 2$



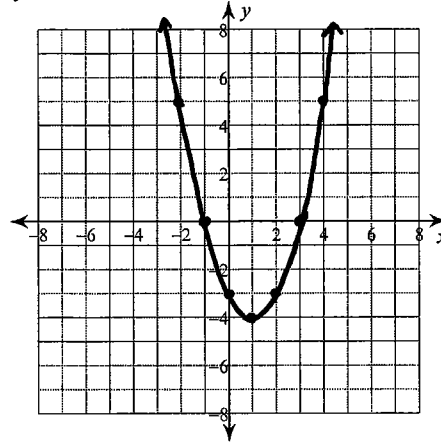
$x = 0, 4$

$$7) y = x^2 + 2x + 1 = (x + 1)^2$$



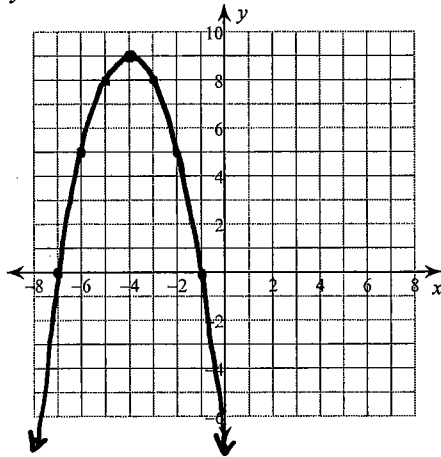
$$x = -1$$

$$8) y = x^2 - 2x - 3 = (x - 1)^2 - 4$$



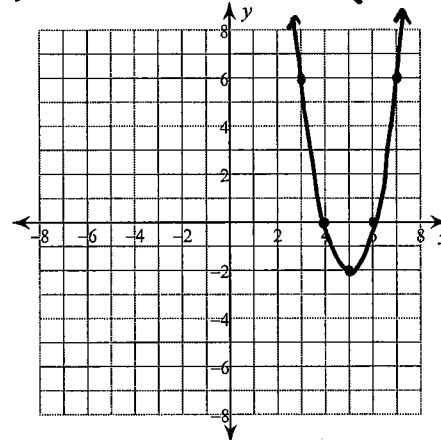
$$x = -1, 3$$

$$9) y = -x^2 - 8x - 7 = -(x + 4)^2 + 9$$



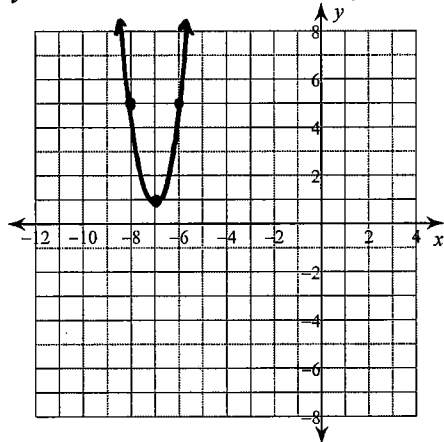
$$x = -7, -1$$

$$10) y = 2x^2 - 20x + 48 = 2(x - 5)^2 - 2$$



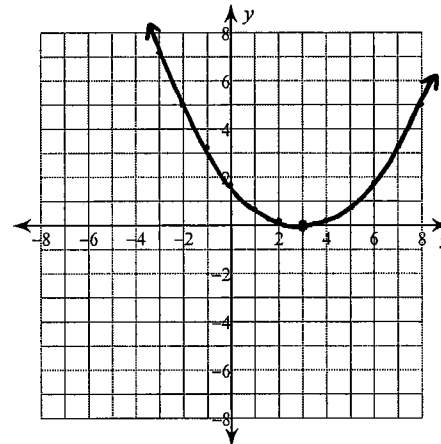
$$x = 4, 6$$

$$11) y = 4x^2 + 56x + 197 = 4(x + 7)^2 + 1$$



no solution

$$12) y = \frac{1}{5}x^2 - \frac{6}{5}x + \frac{9}{5} = \frac{1}{5}(x - 3)^2$$



$$x = 3$$