Name: _____ Date: _____

Fresh Math

Graph each function.

Solve for x. Show your work.

1. $y = 1(x - 1)^2 + -2$

2. $y = 3(x - -2)^2 + -1$

3. $y = 3(x - -3)^2 + -2$

4. $y = 1(x - 0)^2 + 3$

5. $y = 2(x - -2)^2 + -1$

6. $y = 3(x - -1)^2 + 0$

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

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

Graph each function. - Answer Key

1. $y = 1(x - 1)^2 + -2$

   \text{Parabola, vertex at (1, -2), opens up}

2. $y = 3(x - -2)^2 + -1$

   \text{Parabola, vertex at (-2, -1), opens up}

3. $y = 3(x - -3)^2 + -2$

   \text{Parabola, vertex at (-3, -2), opens up}

4. $y = 1(x - 0)^2 + 3$

   \text{Parabola, vertex at (0, 3), opens up}

5. $y = 2(x - -2)^2 + -1$

   \text{Parabola, vertex at (-2, -1), opens up}

6. $y = 3(x - -1)^2 + 0$

   \text{Parabola, vertex at (-1, 0), opens up}

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

   \text{Parabola, vertex at (1, 2), opens up}

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

   \text{Parabola, vertex at (-2, 1), opens up}