

LT 3.1 Skills Practice

Graphing Quadratic Functions using a Table

Complete parts a-c for each quadratic function.

a. Make a table of values that includes the vertex.

b. Use this information to graph the function.

c. Label the vertex, the axis of symmetry, and the y-intercept.

1. $f(x) = 2x^2 - 11$

2. $f(x) = x^2 - 10x + 5$

3. $f(x) = -2x^2 + 8x + 7$

Use x from 2 to -2

So your table should have

-2, -1, 0, 1, 2

Use x from 3 to 7

Use x from 0 to 4

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

5. $f(x) = 3x^2 + 12x + 3$

6. $f(x) = 2x^2 + 4x + 1$

Use x from -1 to 3

Use x from -4 to 0

Use x from -3 to 1