

# LT 3.1 Honors Skills Practice

## *Graphing Quadratic Functions using a Table*

Complete parts a–c for each quadratic function.

- Find the  $y$ -intercept, the equation of the axis of symmetry, and the  $x$ -coordinate of the vertex.
- Make a table of values that includes the vertex.
- Use this information to graph the function.

1.  $f(x) = x^2 - 8x + 15$

Use  $x$  from 2 to 6

so your table should have

under the  $x$  column these numbers

2, 3, 4, 5, 6

2.  $f(x) = -x^2 - 4x + 12$

Use  $x$  from -4 to 0

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

Use  $x$  from -1 to 3

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

Use  $x$  from -3 to 1

5.  $f(x) = x^2 - 6x + 14$

Use  $x$  from 1 to 0

6.  $v(x) = -x^2 + 14x - 57$

Use  $x$  from 5 to 9