

## Answers to 5.5 Intercept Form

1)  
9)

3)

11) a.  $(-4, 0), (2, 0)$

b.  $(0, 4)$

c.  $x = -1$

d.  $(-1, 4.5)$

e. 4.5

f. Down

g.  $-\infty < x < \infty$

h.  $x \leq 4.5$

i.  $x > -1$

j.  $x < -1$

k.  $-4 < x < 2$

l.  $x < -4$  and  $x > 2$

m. As  $x \rightarrow -\infty, y \rightarrow -\infty$

As  $x \rightarrow \infty, y \rightarrow -\infty$

5)

7)

13) The solutions of the equation.

15)  $y = ax^2 + bx + c$ . The x-coordinate of the vertex is  $-\frac{b}{2a}$ , then you plug that back into the equation to find the y-coordinate of the vertex.