

SM2 7.1 odd answers

1. Form: vertex

Vertex: $(4, 3)$

Axis of Symmetry: $x = 4$

Direction of opening: up

y-intercept: $(0, 19)$

3. Form: standard

Vertex: $(1, -12)$

Axis of Symmetry: $x = 1$

Direction of opening: up

y-intercept: $(0, -11)$

5. Form: factored

Vertex: $(5, -4)$

Axis of Symmetry: $x = 5$

Direction of opening: up

y-intercept: $(0, 21)$

7. Vertex: $(2, -5)$

Axis of Symmetry: $x = 2$

y-intercept: $(0, -1)$

positive

9. Vertex: $(-1, 2)$

Axis of Symmetry: $x = -1$

y-intercept: $(0, 1\frac{1}{2})$

negative

11. $x = -3$, and $x = \frac{5}{2}$

13. $\frac{3 \pm \sqrt{185}}{8}$