

### **SM2 7.3 odd answers**

1. Form: factored

Direction of Opening: up

Zeros:  $x = 3, 2\frac{1}{2}$

$x$ -intercepts:  $(3, 0), (2\frac{1}{2}, 0)$

3. Form: standard, vertex

Direction of Opening: up

Zeros:  $x = \pm 3$

$x$ -intercepts:  $(3, 0), (-3, 0)$

5. Form: vertex

Direction of Opening: down

Zeros:  $x = 1, -5$

$x$ -intercepts:  $(1, 0), (-5, 0)$

7. Form: factored

Direction of Opening: up

Zeros:  $x = 4, -2$

$x$ -intercepts:  $(4, 0), (-2, 0)$

Axis of symmetry:  $x = 1$

Vertex:  $(1, -9)$

9. Form: standard

Direction of Opening: up

Zeros:  $x = -4, -8$

$x$ -intercepts:  $(-4, 0), (-8, 0)$

Axis of symmetry:  $x = -6$

Vertex:  $(-6, -4)$