

**SM3H 1.6 ODD answer key**

1. 2

3. 3

5.  $x = -2, 2, 3$

7.  $f(x) = (x - 4)(x - 7)(x + 2)$

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

11.  $x = -5, 2$

13.  $x = 3, -\frac{2}{3}$

15. b

17. 5

19.  $15\sqrt{2}$

21.  $2 + 9\sqrt{5}$

23.  $-1, \frac{3}{5}$

25.  $4\sqrt{2}$

27.  $3i\sqrt{5}$

29. 24

31.  $17 - i$

33.  $x^2 - 6x + 13$

35.  $\frac{2 \pm i\sqrt{5}}{3}$

37.  $f(x) = (x - 2 - i)(x - 2 + i)$

39.  $f(x) = (x + 2 - i\sqrt{3})(x + 2 + i\sqrt{3})$

41.  $f(x) = \frac{1}{2}(2x + 3 + i)(2x + 3 - i)$