

4.5 Practice B

1. $x = -\frac{3}{2}, x = 0$ 2. $h = 0, h = \pm\sqrt{2}$

3. $q = \pm\frac{1}{2}$ 4. $w = \pm 3$

5. $p = -2, p = \pm 5$ 6. $y = \pm 3, y = 8$

7. $x = -2, x = 0, x = 6$

8. $x = -6, x = 0, x = 5$

9. $x = -2, x = -1, x = 2$

10. $x = -3, x = 3, x = 4$

11. B

12. The factors of 2 include ± 2 ;

$$f(x) = 2x^3 + 5x^2 - 2x - 6;$$

Possible zeros: $\pm 1, \pm 2, \pm 3, \pm 6, \pm\frac{1}{2}, \pm\frac{3}{2}$

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

14. $x = -2, x = 3, x = 4$

15. *Sample answer:*

$$f(x) = 25x^3 - 50x^2 - 49x + 98;$$

$$f\left(\frac{7}{5}\right) = 0; f\left(-\frac{7}{5}\right) = 0$$