

## Answer Key

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### Lesson 5.5

#### Practice Level B

1.  $x + 7$  2.  $x - 7 - \frac{13}{x + 5}$  3.  $x^2 - 3x + 10$

4.  $3x - 1 + \frac{8}{2x - 1}$  5.  $8x + 5 + \frac{12x + 25}{x^2 - 3}$

6.  $5x^2 + 17x + 31 + \frac{16x - 112}{x^2 - 3x + 4}$  7.  $x + 3$

8.  $x^2 - 2x + 6 + \frac{1}{x - 1}$  9.  $x^2 - 5x - 1 - \frac{12}{x - 2}$

10.  $2x^3 - 3x^2 + 3x - 3 + \frac{7}{x + 1}$

11.  $2x^3 - 5x^2 + 6$

12.  $x^3 + x^2 + 7x + 9 + \frac{96}{x - 7}$

13.  $(x - 6)(x + 1)(x + 2)$

14.  $(x - 10)(x - 4)(x + 2)$

15.  $(x - 9)(x - 2)(x - 7)$  16.  $(x + 5)(x - 3)^2$

17.  $(x - 1)(2x + 3)(2x - 3)$

18.  $(x + 4)(3x - 1)(x - 9)$  19. 2 20. -9, 12

21. -5,  $-\frac{1}{2}$  22.  $-\frac{2}{5}, \frac{1}{3}$  23. 5 24.  $-\sqrt{5}, \sqrt{5}$

25.  $x - 2$

26. Answers may vary depending on rounding.

$$A = -0.001x^2 + 0.0823x - 6.8943 + \frac{1909}{3x + 267}$$