

# Answer Key

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## Practice C

1.  $4(x + 4)(x - 4)$     2.  $x(x + 1)(x - 1)^2$

3.  $x(x - 2)(x - 6)$     4.  $\frac{1}{x + 1}$

5.  $-\frac{2(x^2 - 8x - 21)}{3(x - 4)(x + 3)}$     6.  $\frac{5x^2 + 2}{x^3}$

7.  $\frac{4(2x + 5)}{x + 2}$     8.  $\frac{2x - 1}{x}$     9.  $\frac{-x - 5}{(x + 2)^2}$

10.  $\frac{2(2x^2 + 4x - 3)}{(x + 3)^2(x - 3)}$     11.  $\frac{(2x + 1)(2x - 1)}{2x(x + 1)^2}$

12.  $\frac{x^2 + 15x + 14}{10}$     13.  $\frac{x - 3}{x}$

14.  $\frac{x(3x + 4)}{4x^3 + 9x - 36}$

15.  $R_t = \frac{R_1R_2R_3R_4}{R_1R_2R_3 + R_1R_2R_4 + R_1R_3R_4 + R_2R_3R_4}$

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$$R_t = \frac{R_1R_2R_3R_4R_5}{R_1R_2R_3R_4 + R_1R_2R_3R_5 + R_1R_2R_4R_5 + R_1R_3R_4R_5 + R_2R_3R_4R_5}$$