

# Answer Key

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## Practice C

- $x - 6 + \frac{3(7x - 4)}{x^2 + 3x - 1}$
- $2x^2 - 4x + 9 - \frac{28}{2x + 3}$
- $2x^2 - 4x + 6 - \frac{5x + 7}{x^2 + 2x + 1}$
- $4x - 6 + \frac{16x - 19}{x^2 - 4}$
- $2x - \frac{4}{3} + \frac{4x + 15}{3(3x^2 + x)}$
- $\frac{1}{3}x^2 - \frac{8}{9}x + \frac{61}{27} - \frac{149}{27(3x + 2)}$
- $\frac{1}{2}x + \frac{x + 10}{2(2x^2 - 1)}$
- $\frac{1}{2}x - \frac{5}{4} + \frac{3(8x + 5)}{4(4x^2 + 2x - 1)}$
- $5x^3 + 8x^2 + 23x + 52 + \frac{96}{x - 2}$
- $6x^2 - 20x + 65 - \frac{192}{x + 3}$
- $2x^2 + 2x - 1 + \frac{3}{x - 1}$
- $4x^2 - 10x + 20 - \frac{39}{x + 2}$
- $3x^4 + 9x^3 + 29x^2 + 87x + 256 + \frac{769}{x - 3}$
- $2x^2 + 5x - 1$     15.  $-1, 7$     16.  $-\frac{3}{2}, \frac{1}{3}$
- $-2 - \sqrt{5}, -2 + \sqrt{5}$
- $-\frac{5 - \sqrt{17}}{2}, -\frac{5 + \sqrt{17}}{2}$     19.  $-5, -1$
- $\frac{3 - \sqrt{5}}{2}, \frac{3 + \sqrt{5}}{2}$     21.  $-\frac{3}{2}, 1$
- $\frac{1 - \sqrt{10}}{3}, \frac{1 + \sqrt{10}}{3}$     23.  $-1 - i, -1 + i$
- $-\sqrt{5}i, \sqrt{5}i$
- $A = (-0.004t^3 + 0.082t^2 - 0.268t + 3.206) \div (2.61t + 247); 0.0118 \frac{\text{quadrillion Btu}}{\text{million people}}$
- 810 yearbooks