Unit 9.2 Homework Answers

1. $3x(x-2)$ **2.** $4x^2(x+3)$ **3.** $2x(x-5)$ **4.** $\dfrac{5}{x}$

5. $\dfrac{x-4}{16x^2}$ **6.** $\dfrac{9-2x}{x+1}$ **7.** $\dfrac{107}{30x}$ **8.** $\dfrac{32-15x}{12x^2}$

9. $\dfrac{x^2-20x+16}{5x(x-4)}$ **10.** $24x^2(x-2)$ **11.** $x(x-5)(x+5)$ **12.** $(x-2)(3x+4)(3x-4)$

13. $\dfrac{-x+1}{(x+7)(x-2)}$ **14.** $\dfrac{2x^2+x-3}{(x-3)(x+3)^2}$ **15.** $\dfrac{-2x-14}{(x-4)(x+2)(x-8)}$ **16.** $R_t = \dfrac{R_1 \cdot R_2}{R_1 + R_2}$; 1474 ohms

17. $\dfrac{8x^3-9x^2-28x+8}{x(x-4)(3x-1)}$ **18.** $\dfrac{-x^3-3x^2-x-51}{(x-5)(x+5)(x+3)}$ **19b.** \$364.02

20b. $\dfrac{7}{5}; \dfrac{17}{12}; \dfrac{41}{29}; \dfrac{99}{70}; \dfrac{239}{169}$ $\sqrt{2}$