

$$1. (-45x) (-50x^3y^3) (-2x^3y) = 4500x^8y^4$$

$$2. (-20R^3BC) (-4R^2B^2C^4) (-55RBC) (-6RB^4) = 264000 R^8B^8C^9$$

$$3. (3R^3 + 5B^2 - 4) (3R^2)$$

$$4. (2/3 R^3B^2 + 1/4 R^2B^3 + 5/6 RB^4 - 2/3 B^5) \cdot 1/2 RB^2$$

$$\left(\frac{2}{3} R^3B^2 + \frac{1}{4} R^2B^3 \right) \cdot \frac{1}{2} R^2B^2$$

$$\left(-\frac{1}{4} R^3B^2 + \frac{1}{2} R^2B^3 \right) \cdot \frac{1}{8} R^2B^2$$

$$\left(\frac{2}{3} R^3B^2 + \frac{1}{2} R^2B^3 \right) \cdot \frac{5}{12} R^2B^2$$

$$\left(-\frac{2}{3} R^3B^2 + \frac{1}{2} R^2B^3 \right) \cdot \frac{3}{16} R^2B^2$$

$$-\frac{2}{6} R^5B^4 + \frac{1}{8} R^4B^5 - \frac{2}{12} R^3B^6 + \frac{3}{16} R^2B^7$$

$$5. (3x^6 - 2x^5 - x^4 + 30x - 10) (20x^8 + 30x - 2)$$

$$60x^8 - 40x^6 - 20x^5 + 600x^3 - 400x^2$$

$$+ 90x^3 - 60x^2 - 30x^2 + 300x^2 - 600x$$

$$60x^6 + 60x^5 + 6x^3 - 2x^2 - 60x + 200$$

$$6 \quad (5x^6 + 5x^4 + 30x^2 - 2x) \quad (x^2 - x + 3)$$

$$\begin{array}{r} 5x^8 + 5x^6 + 30x^4 - 2x^3 \\ + 5x^7 + 5x^5 + 15x^3 - 5x^2 + 2x^2 \\ \hline 5x^8 - 5x^7 + 20x^6 - 5x^5 + 45x^4 + 32x^3 + 92x^2 - 6x \end{array}$$

$$7 \quad (20x^4 - 2x^3 + 30x^2 + 50x + 100) \quad (x + 2)$$

$$\begin{array}{r} 20x^5 - 2x^4 + 30x^3 + 50x^2 + 100x \\ + 40x^4 - 8x^3 + 60x^2 + 100x + 100 \\ \hline 20x^5 + 38x^4 - 26x^3 + 110x^2 + 200x + 200 \end{array}$$