

11

$$\frac{5x^{-4}}{x^{-4}}$$

$$\frac{5x^4}{1}$$

$$5x^4$$

12

$$\frac{3}{(5x^2)^{-3}}$$

$$\frac{3 \cdot (5x^2)^3}{1}$$

$$3 \cdot 5^3 (x^2)^3$$

$$3 \cdot 125 x^6$$

$$375x^6$$

13

$$\left(\frac{2}{15}x^2y^{-4}\right)\left(-\frac{5}{8}x^{-4}y^7\right)$$

$$\left(\frac{2x^2y^{-4}}{15}\right)\left(-\frac{5x^{-4}y^7}{8}\right)$$

$$\left(\frac{2x^2}{15y^4}\right)\left(\frac{-5y^7}{8x^4}\right)$$

$$\frac{-10x^2y^7}{120x^4y^4}$$

$$\frac{-1y^3}{12x^2}$$

$$\frac{-y^3}{12x^2}$$

14

$$\frac{20x^2y^{-3}}{30x^{-4}y^{-12}}$$

$$\frac{20x^2x^4y^{12}}{30y^3}$$

$$\frac{2x^6y^9}{3}$$

15

$$\left(2x^4y^{-2}\right)\left(\frac{3x^{y-3}}{y^{-5}}\right)^2$$

$$\left(\frac{2x^4y^{-2}}{1}\right)\left(\frac{3xy^5}{y^3}\right)^2$$

$$\left(\frac{2x^4}{y^2}\right)\left(\frac{3xy^2}{1}\right)^2$$

$$\left(\frac{2x^4}{y^2}\right)\left(\frac{3^2(x)^2(y^2)^2}{1^2}\right)$$

$$\left(\frac{2x^4}{y^2}\right)\left(\frac{9x^2y^4}{1}\right)$$

$$\frac{18x^6y^4}{y^2} = \frac{18x^6y^2}{1}$$

$$= 18x^6y^2$$