



$$35) (-4x^2)^{-3} \cdot (2x^{-3})^2 = \frac{1}{-64x^6} \cdot \frac{4}{x^6} \\ = \frac{-1}{16x^{12}}$$

$$36) -a^{-2} \cdot (-b)^{-3} = \frac{-1}{a^2} \cdot \frac{-1}{b^3} \\ = \frac{1}{a^2 b^3}$$

$$37) \frac{a^{-3} b^2}{a^{-5} b^4} = \frac{a^2}{b^2}$$

$$38) \left(\frac{2a^{-3}}{5b^2}\right)^3 = \left(\frac{2}{5a^3 b^2}\right)^3 \\ = \frac{8}{125a^9 b^6}$$

$$39) \left(\frac{a^5 b^{-3}}{b^2}\right)^{-3} = \left(\frac{b^2}{a^5 b^{-3}}\right)^3 \\ = \left(\frac{b^2 b^3}{a^5}\right)^3 \\ = \frac{b^{15}}{a^{15}}$$

$$40) \left(\frac{10ab^{-3}}{3c^4}\right)^{-3} = \left(\frac{3c^4}{10ab^{-3}}\right)^3 \\ = \frac{27c^{12} b^9}{1000a^3}$$

$$41) \left(\frac{-2x^{-3}}{5x^4}\right)^{-1} = \left(\frac{5x^4}{-2x^{-3}}\right)^1 \\ = \frac{5x^4 x^3}{-2} \\ = \frac{-5x^7}{2}$$

$$42) \frac{6a^{-2} b^3}{2a^3 b^{-2}} = \frac{6b^2 b^3}{2a^3 a^2} \\ = \frac{3b^5}{a^5}$$

$$43) \frac{5a^5 b^{-5}}{(-3ab^{-3})^2} = \frac{5a^5 b^{-5}}{9a^2 b^{-6}} \\ = \frac{5a^5 b^6}{9a^2 b^5} \\ = \frac{5b}{9a^3}$$