



$$1. \frac{3x^{-1}}{y^{-7}} = \frac{3y^7}{x^1}$$

$$2. (5a^{-7})^{-2} = 5^{-2}a^{14} = \frac{a^{14}}{5^2}$$

$$3. x^3y^4 \cdot x^{-3}y^5 = \frac{x^3y^4y^5}{x^3} = \frac{x^3y^9}{x^3} = y^9$$

$$4. \left(\frac{x^{-8}}{2y^{-4}}\right)^2 = \frac{x^{-16}}{2^2y^{-8}} = \frac{y^8}{2^2x^{16}}$$

$$5. \frac{1}{(2x)^{-5}} = \frac{1}{2^{-5}x^{-5}} = \frac{2^5x^5}{1}$$

$$6. (5^{-3})^{-1} = 5^3$$

$$7. (5x^{-2})^{-3} = 5^{-3}x^6 = \frac{x^6}{5^3}$$

$$8. (5xy)^{-5} = 5^{-5}x^{-5}y^{-5} = \frac{1}{5^5x^5y^5}$$

$$9. \left(\frac{5a^{-2}}{3b^{-7}}\right)^2 = \frac{5^2a^{-4}}{3^2b^{-14}} = \frac{5^2b^{14}}{3^2a^4}$$

$$10. \frac{4}{x^{-5}} \cdot \frac{2^{-7}x}{y} = \frac{4x^5}{1} \cdot \frac{x}{2^7y} = \frac{4x^6}{2^7y}$$