

$$1.) \frac{8^8}{8^4} = \boxed{8^4} \quad \wedge \quad 8^4$$

$$3.) \frac{xy^2}{xy^1} = \boxed{y}$$

$$5.) \frac{5cfd^3}{-4g^2d^1} = \boxed{\frac{5d^2}{-4}}$$

$$7.) \left(\frac{4f^3g}{3h^6} \right)^3 = \boxed{\frac{64f^9g^3}{27h^{18}}}$$

$$9.) \quad \frac{-4c^2}{24c^5} = \boxed{\frac{-1}{6c^3}}$$

$$11.) \quad p(q^{-2})(r^{-3}) = \boxed{\frac{p}{q^2 r^3}}$$

$$13.) \left(\frac{3}{7}\right)^{-2} = \frac{3^{-2}}{7^{-2}} = \frac{7^2}{3^2} = \boxed{\frac{49}{9}}$$

$$15.) \frac{22r^3s^2}{11r^2s^{-3}} = \boxed{2rs^5}$$

$$2 + +3$$

$$17.) \frac{8c^3 d^2 f^4}{4c^{-1} d^2 f^{-3}} = \boxed{2c^4 f^7}$$

$$19.) \frac{6f^{-2} g^3 h^5}{54f^{-2} g^{-5} h^3} = \frac{1g^8 h^2}{9}$$

3 + 5

$$\boxed{\frac{g^8 h^2}{9}}$$

$$21.) \frac{r^4}{(3r)^3} = \frac{r^4}{27r^3} = \boxed{\frac{r}{27}}$$

$$23.) \frac{(j^{-1}k^3)^{-4}}{j^3k^3} = \frac{j^4k^{-12}}{j^3k^3} = \boxed{\frac{j}{k^{15}}}$$

$$25.) \left(\frac{a^{-1} r^3}{q r^{-2}} \right)^{-5} = \frac{q^5 r^{-15}}{q^{-5} r^{10}} = \boxed{\frac{q^{10}}{r^{25}}}$$

$$27.) \left(\frac{2x^3 y^2 z}{3x^4 y z^{-2}} \right)^{-2} = \frac{2^{-2} x^{-6} y^{-4} z^{-2}}{3^{-2} x^{-8} y^{-2} z^4}$$

$$-6 + 8$$

$$-4 + 2$$

$$-2 - 4$$

$$= \boxed{\frac{9x^2}{4y^2 z^6}}$$