

Dividing Monomials with Exponents

Simplify the following expressions.

$$[1] \frac{-10a^{10}b^9}{3a^4b^5}$$

$$[2] \frac{16x^4}{24x^{-3}}$$

$$[3] \frac{5z^4}{15yz^4}$$

$$[4] \frac{-p^2q^5}{-4q^8p^2}$$

$$[5] \frac{8r^0s^1t^6}{8st^3}$$

$$[6] \frac{(3b^3c^3)^3}{3b^2c^3}$$

$$[7] \frac{14m^2n^5p}{18m^5n^4p^3}$$

$$[8] \frac{90g^{12}}{-9g^{17}}$$

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Answers

$$[1] \frac{-10a^{10}b^9}{3a^4b^5}$$

$$[2] \frac{16x^4}{24x^{-3}}$$

$$-\frac{10}{3} a^6b^4$$

$$\frac{2}{3} x^7$$

$$[3] \frac{5z^4}{15yz^4}$$

$$[4] \frac{-p^2q^5}{-4q^8p^2}$$

$$\frac{1}{3} y^{-1}$$

$$\frac{1}{4} q^7$$

$$[5] \frac{8r^0s^1t^6}{8st^3}$$

$$[6] \frac{(3b^3c^3)^3}{3b^2c^3}$$

$$t^3$$

$$9b^7c^6$$

$$[7] \frac{14m^2n^5p}{18m^5n^4p^3}$$

$$[8] \frac{90g^{12}}{-9g^{17}}$$

$$\frac{7}{9} m^{-3}np^{-2}$$

$$-10g^{-5}$$