

Quotient Properties of Exponents



$$1) \left( \frac{2x^2y}{3xy} \right)^3 = \frac{2^3x^6y^3}{3^3x^3y^3} = \frac{2^3x^3}{3^3} \quad 2) \left( \frac{3x^2y^3}{xy} \right)^4 = \frac{3^4x^8y^{12}}{x^4y^4} = \frac{3^4x^4y^8}{1} = 3^4x^4y^8$$

$$3) \frac{3x^5y^7}{2xy^4} = \frac{3x^4y^3}{2}$$

$$4) \frac{1}{x^5} \cdot x^{20} = \frac{x^{20}}{x^5} = \frac{x^{15}}{1} = x^{15}$$

$$5) \frac{4x}{5y} \cdot \frac{2x^3}{y^2} = \frac{8x^4}{5y^3}$$

$$6) \frac{3xy^4}{4x^3} \cdot \frac{2x^2y^2}{y^2} = \frac{6x^3y^6}{4x^3y^2} = \frac{3y^4}{2}$$

7)

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