



Rules of Exponents

Version 1

Name: _____

Date: _____

Score: _____

Direction: Simplify each algebraic expression using the rules or laws of exponents. Show all your work in the space provided.

1) $(x^0 y^2 z^4)(x^{-1} yz)$

2) $(mn^{-1}p)(mp^2)^{-3}$

3) $\frac{-x^5 y^5}{x^2 y^{-1}}$

4) $\frac{(x^{-2} y^2)^{-1}}{xy}$



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1) $(x^0 y^2 z^4)(x^{-1} yz)$

$$\frac{y^3 z^5}{x}$$

2) $(mn^{-1}p)(mp^2)^{-3}$

$$\frac{1}{m^2 p^5 n}$$

3) $\frac{-x^5 y^5}{x^2 y^{-1}}$

$$-x^3 y^6$$

4) $\frac{(x^{-2} y^2)^{-1}}{xy}$

$$\frac{x}{y^3}$$