



Rules of Exponents

Version 2

Name: _____

Date: _____

Score: _____

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

1) $(x^{-1}y^{-2}z^{-3})(xy^2z^3)$

2) $(xyz)^2(xy z^{-1})^{-2}$

3) $\frac{(x^2y^{-2})^{-3}}{xy^6}$

4) $\frac{(mk^4)^{-1}}{(mk^{-4})^{-2}}$



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1) $(x^{-1}y^{-2}z^{-3})(xy^2z^3)$

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2) $(xyz)^2(xy z^{-1})^{-2}$

 z^4

3) $\frac{(x^2y^{-2})^{-3}}{xy^6}$

 $\frac{1}{x^7}$

4) $\frac{(mk^4)^{-1}}{(mk^{-4})^{-2}}$

 $\frac{m}{k^{12}}$