

MasterMath

Name _____

Exponential Properties Involving Quotients; Zero and Negative Exponents

Date _____

1. Simplify:

expression	simplified
6^{-2}	
z^0	
$(x^2y)^3$	
$x^3 * x^5$	
$(2y^3)^2$	
$(3x^3) + (3x)$	
$(x/y)^2$	
$(4x/2)^4$	
$1/6^{-2}$	

2. Simplify; your answer should not contain any negative exponents.

Just For Fun

10^3	1000
10^2	100
10^1	10
10^0	1
10^{-1}	0.1
10^{-2}	0.01
10^{-3}	0.001

expression	simplified
$5c^{-3}d^4$	
$\frac{1}{8x^{-2}y}$	
$\frac{(3x)^{-3}y^4}{3x}$	
$(-16x^3y^5)^0$	
$(5m)^{-3}n^{-4}$	
$3^{-2} * 3^{-3}$	
$(-2^{-2})^3$	
$\frac{9}{(3d)^3}$	
$(2x^{-2}y^3)^{-3}$	
$\frac{16x^8y^{-7}}{(4x^{-2}y^{-6})^2}$	
$\frac{2^4}{10^3}$	
$4x^{-5} * xy^3$	

3. Simplify: $(5x^2y^3z^{-1})^2 * (2xy^{-5})^3$