MONOMIAL LAWS REVIEW

Homework: _____

Monomial Law	Rule	Examples	
Product of Powers	$a^m \cdot a^n =$	$a^3 \cdot a^4 =$	$-2xy^2 \cdot 3x^3 =$
Power of a Monomial	$(a^m)^n =$	$(a^2)^4 =$	$(-3x^3yz^2)^3 =$
Quotient of Powers	$\frac{a^m}{a^n} =$	$\frac{a^5}{a^2} =$	$\frac{5x^3y}{10xy^2} =$
Zero Power	$a^0 =$	$2x^0y^3 =$	$(3x^2y^3)^0 =$
Negative Exponent	$a^{-m} =$	$5x^{-2} =$	$-3xy^{-4} =$
	$\frac{1}{a^{-m}}$	$\frac{2}{4x^{-3}} =$	$\frac{-3x^{-2}y^3}{6x^3y^{-4}} =$

Simplify.

1. $(2x^2y)(-3xy^4)$
2. $2x(x^3y^2)^4$
3. $\frac{24x^2y^3}{10xy^5}$
4. $(3x^4y^{-2})^3 \cdot (2x^2y^5)^0$
5. $\frac{2x^2y}{x^3y^4} \cdot \frac{xy^4}{3xy^2}$