

# EXPONENT RULES

# GRAPHIC ORGANIZER

Name	Rule	Examples
ADDING & SUBTRACTING MONOMIALS	<b>COMBINE LIKE TERMS!!!</b> (DO NOT CHANGE common variables and exponents!)	1. $9x^2y - 10x^2y =$ 2. Subtract $6w$ from $8w$
PRODUCT RULE	$X^a \cdot X^b =$	1. $h^2 \cdot h^6 =$ 2. $(-2a^2b) \cdot (7a^3b) =$
POWER RULE	$(X^a)^b =$	1. $(x^2)^3 =$ 2. $(-2m^5)^2 \cdot m^3 =$
QUOTIENT RULE	$\frac{X^a}{X^b} =$	1. $\frac{27x^5}{42x} =$ 2. $\frac{(y^2)^2}{y^4} =$
NEGATIVE EXPONENT RULE	$X^{-a} =$	1. $-5x^{-2} =$ 2. $\frac{4k^2}{8k^5} =$
ZERO EXPONENT RULE	$X^0 =$	1. $7x^0 =$ 2. $\frac{(w^4)^2}{w^8} =$