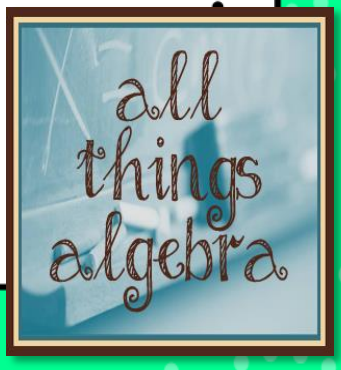
EXPONENT RULES

Graphic Organizer!

Name	Rule	Examples
ADDING & SUBTRACTING MONOMIALS	**COMBINE LIKE TERMS!!!** (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. $h^2 \cdot h^4 =$ 2. $(-2a^2b) \cdot (7a^3b) =$
POWER RULE	$(x^a)^b =$	1. $(x^2)^4 =$ 2. $(-2m^3)^2 \cdot m^4 =$
QUOTIENT RULE	$\frac{x^a}{x^b} =$	1. $\frac{27x^3}{42x} =$ 2. $\frac{(y^2)^2}{y^4} =$
NEGATIVE EXPONENT RULE	$x^{-a} =$	1. $-5x^{-2} =$ 2. $\frac{4k^2}{8k^5} =$

Freebie!



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PRODUCT RULE	$x^a \cdot x^b =$	**1.** $h^2 \cdot h^6 =$ **2.** $(-2a^2b) \cdot (7a^3b) =$
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Key

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Name	Rule	Examples
ADDING & SUBTRACTING MONOMIALS	**COMBINE LIKE TERMS!!!** (Do NOT change common variables and exponents!)	**1.** $9x^2y - 10x^2y =$ $-x^2y$ **2.** Subtract 6w from 8w $2w$ $8w-6w$
PRODUCT RULE	$x^a \cdot x^b =$ x^{a+b}	**1.** $h^2 \cdot h^6 =$ h^8 **2.** $(-2a^2b)\cdot(7a^3b) =$ $-14a^5b^2$
POWER RULE	$(x^a)^b =$ x^{ab}	**1.** $(x^2)^3 =$ x^6 **2.** $(-2m^5)^2 \cdot m^3 =$ $4m^{13}$ $4m^{10}\cdot m^3$
QUOTIENT RULE	$\frac{x^a}{x^b} =$ x^{a-b}	**1.** $\frac{27x^5}{42x} =$ $\frac{9}{14}x^4$ **2.** $\frac{(y^2)^2}{y^4} =$ $\frac{y^4}{y^4} = 1$
NEGATIVE EXPONENT RULE	$x^{-a} =$ $\frac{1}{x^a}$	**1.** $-5x^{-2} =$ $\frac{-5}{x^2}$ **2.** $\frac{4k^2}{8k^5} =$ $\frac{1}{2}k^{-3} = \frac{1}{2k^3}$

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