

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. $(-2a^3b) \cdot (7a^2b) =$
POWER RULE	$(x^a)^b =$	1. $(x^2)^4 =$ 2. $(-2m^3)^4 \cdot m^4 =$
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. $\frac{4k^4}{8k^4} =$

Freebie!

all things algebra

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

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Key GRAPHIC ORGANIZER

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

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