

COLLEGE PREP
SECTION 5A – GETTING READY FOR CHAPTER 5

Objectives:

- Simplify exponential equations using the product rule, the quotient rule, the power rule, and the Law of Exponents.
- Evaluate Exponential expressions with a Zero or negative exponent.
- Convert between Scientific Notation and Decimal Notation.
- Use Scientific Notation to multiply and divide.

NOTATION: in the expression a^n , a is called the **base**, and n is called the **exponent or power**.

Rules for Operations with Exponents

Operation Formula Example		
Multiplying – <u>add exponents</u>	$a^m \cdot a^n = a^{m+n}$	$x^2 \cdot x^5 = x^7$
Dividing – <u>subtract exponents</u>	$\frac{a^m}{a^n} = a^{m-n}$	$\frac{r^8}{r^3} = r^5$
Power to a power – <u>multiply exponents</u>	$(a^m)^n = a^{mn}$	$(y^3)^4 = y^{12}$
Power of a product – exponent <u>applies to each factor</u> (like distributing)	$(ab)^n = a^n b^n$	$(2c)^4 = 16c^4$
Power of a quotient – exponent <u>applies to numerator and denominator</u> (like distributing)	$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$	$\left(\frac{5}{w}\right)^3 = \frac{125}{w^3}$
Power of a negative quotient – exponent <u>applies to numerator and denominator</u> (like distributing) This will cause everything inside to switch places.	$\left(\frac{a}{b}\right)^{-n} = \frac{a^{-n}}{b^{-n}} = \frac{b^n}{a^n}$	$\left(\frac{x}{5}\right)^{-2} = \frac{x^{-2}}{5^{-2}} = \frac{5^2}{x^2}$
Negative exponents – moving the exponential factor to the denominator creates a positive exponent	$a^{-n} = \frac{1}{a^n}$ or $\frac{1}{a^{-n}} = a^n$	$3x^{-4} = \frac{3}{x^4}$
Zero Exponents – any number or variable that has a zero exponent is always <u>equal to 1</u>	$\frac{a^m}{a^m} = a^0 = 1$	$\frac{x^0}{4} = \frac{1}{4}$

Note: These power rules assume that the variable does not equal 0 whenever it's in the denominator or if it is raised to the zero power.

BEWARE of these common mistakes!!!

Error Formula Description Example		
$(a + b)^n \neq a^n + b^n$	Exponents do not distribute over addition or subtraction!	$(3 + 5)^2 \neq 3^2 + 5^2$
$\frac{a + b}{a + c} \neq \frac{b}{c}$	Like terms in fractions do not cancel! (Only <i>factors</i> cancel.)	$\frac{2 + 5}{3 + 5} \neq \frac{2}{3}$
$a^0 \neq 0$	Zero exponent does not mean the same as multiply by zero!	$5^0 \neq 0$
$a^{-n} \neq -a^n$	Negative exponents do not make a monomial negative!	$4^{-3} \neq -4^3$

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JA Banks



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