

**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
<b>Multiplying</b> – <u>add exponents</u>	$a^m \cdot a^n = a^{m+n}$	$x^2 \cdot x^5 = x^7$
<b>Dividing</b> – <u>subtract exponents</u>	$\frac{a^m}{a^n} = a^{m-n}$	$\frac{r^8}{r^3} = r^5$
<b>Power to a power</b> – <u>multiply exponents</u>	$(a^m)^n = a^{mn}$	$(y^3)^4 = y^{12}$
<b>Power of a product</b> – exponent <u>applies to each factor</u> (like distributing)	$(ab)^n = a^n b^n$	$(2c)^4 = 16c^4$
<b>Power of a quotient</b> – exponent <u>applies to numerator and denominator</u> (like distributing)	$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$	$\left(\frac{5}{w}\right)^3 = \frac{125}{w^3}$
<b>Power of a negative quotient</b> – exponent <u>applies to numerator and denominator</u> (like distributing) This will cause everything inside to switch places.	$\left(\frac{a}{b}\right)^{-n} = \frac{a^{-n}}{b^{-n}} = \frac{b^n}{a^n}$	$\left(\frac{x}{5}\right)^{-2} = \frac{x^{-2}}{5^{-2}} = \frac{5^2}{x^2}$
<b>Negative exponents</b> – moving the exponential factor to the denominator creates a positive exponent	$a^{-n} = \frac{1}{a^n}$ or $\frac{1}{a^{-n}} = a^n$	$3x^{-4} = \frac{3}{x^4}$
<b>Zero Exponents</b> – 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 <b>do not</b> 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 <b>do not</b> cancel! (Only <i>factors</i> cancel.)	$\frac{2 + 5}{3 + 5} \neq \frac{2}{3}$
$a^0 \neq 0$		Zero exponent <b>does not</b> mean the same as multiply by zero!	$5^0 \neq 0$
$a^{-n} \neq -a^n$		Negative exponents <b>do not</b> make a monomial negative!	$4^{-3} \neq -4^3$

# Ready To Go On Chapter 5 Section 5a

**DP Hallahan**



## Ready To Go On Chapter 5 Section 5a:

**Military personnel office, management, and administrative procedures** United States. Department of the Army, 1971 **United States Air Force Supervisory Examination, Etc., Study Guide, Air Force Pamphlet 36-2241, Volume 2, July 1, 2003** ,2003 *Promotion Fitness Examination Study Guide* ,2003 Municipal Record ,1913 San Francisco Municipal Record ,1913 **Federal Register** ,1999-05-06 *New York Math: Math A* ,2000 **Code of Federal Regulations** ,1981 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries *Journal of the American Institute of Architects* ,1913 Official Records ,1975 **The Code of Federal Regulations of the United States of America** ,1974 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Journal of the American Institute of Architects American Institute of Architects, 1914

**J. C. Martin on Pulsed Power** T.H. Martin, M. Williams, M. Kristiansen, 2013-06-29 As indicated in the Foreword to this series on Advances in Pulsed Power Technologies the pioneering roots of modern pulsed power as related by J C Charlie Martin and his co workers of the Atomic Weapons Research Establishment Aldermaston Reading UK is an important if not essential record of the experiential history of the major developer of pulsed power advances during the post World War II period It finds great utility as an instructive accounting of the trials tribulations and finally an almost chronological walk through their thoughts as they diligently and happily travel the yellow brick road to success It is recounted in the inimitable style of Charlie Martin as only he can relate with some insightful perspectives by Mike Goodman a constant companion and collaborator who shares his unique view of Charlie and the Aldermaston Group This collection of selected articles is unique for in large part the documentation of their struggle and final triumph have not been formerly published in any archival manner One reason we suspect was the defense related application and significance of their work compounded by the constant need for progress which did not allow for the time consuming preparation of formal submission to the literature This also explains the urgent and sometimes terse manner of their writings Yet the material remains remarkably current because we are dealing in large measure with pulsed systems less sensitive to those factors involved in slower pulsed scenarios

**Consolidated Statutes of North Carolina, Prepared Under Chapter Two Hundred and Fifty-two of the Laws of Nineteen Hundred and Seventeen** North Carolina, 1919 The Tariff Schedules of the United States Converted Into the Format of the Brussels Tariff Nomenclature United States International Trade Commission, 1975 Preparing Teachers for National Board Certification Kathleen Anderson Steeves, Barbara C. Browne, 2000-09-11 This practical book presents a comprehensive blueprint for preparing teachers to achieve National Board for Professional Teaching Standards NBPTS certification An outgrowth of the authors more than five years of experience working with teacher candidates the approach described here enlists the collaboration of both university educators and professional staff development personnel The book

includes a detailed outline of a seminar to introduce teachers to the NBPTS process complete with written samples and reproducible overhead transparency masters Also featured are chapters contributed by Board Certified Teachers who share portfolio samples and activities in four certification areas Supported by research proven best practices in professional education the book includes extensive reference lists and helpful hints for facilitators      *Monthly Catalogue, United States Public Documents* ,1932-07      **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1933      *Macroeconomics* Paul R. Krugman,Robin Wells,2009-02-28 Paul Krugman is one of the leading economic thinkers of our time The examples he uses in this book include international experiences so will appeal to a European audience and give students a more realistic view of how economics works in the real world      **Global Environmental Law Annual** ,2006

## The Enigmatic Realm of **Ready To Go On Chapter 5 Section 5a**: Unleashing the Language is Inner Magic

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