

# Unit 6 Test Study Guide

## Exponents and Exponential Functions

### Exponent Rules

PRODUCT RULE	POWER RULE	QUOTIENT RULE	NEGATIVE EXPONENT RULE
$x^a \cdot x^b = x^{a+b}$	$(x^a)^b = x^{a \cdot b}$	$\frac{x^a}{x^b} = x^{a-b}$	$x^{-a} = \frac{1}{x^a}$

### WHAT ABOUT ADDING AND SUBTRACTING MONOMIALS?

Add/Subtract Coefficients (signs) LEAVE exponents the SAME!

### Simplifying Monomials

Final answers must have positive exponents only!

1. $6ab - 8ab$ $-2ab$	2. $-2xy^2 - 4xy + 6xy^2$ $4xy^2 - 4xy$
3. Subtract $-6b$ from $8b$ $8b - (-6b)$ $14b$	4. $7n^4 \cdot n^2$ $7n^6$
5. $8x^3 \cdot -3x^6$ $-24x^9$	6. $v^4 \cdot 7v^3 \cdot 5v$ $35v^8$
7. $(2y^3)^2$ $4y^6$	8. $(-4x^4)^3$ $-64x^{12}$
9. $(-a^2b)^2$ $a^4b^2$	10. $(-2y^4) \cdot (xy^3)^2 - 13x^2y^{10}$ $(-2y^4)(x^2y^6) - 13x^2y^{10}$ $-2x^2y^{10} - 13x^2y^{10} = -15x^2y^{10}$
11. $\frac{a^5b^2c^2}{a^2b^4c^2}$ $\frac{a^3}{b^2}$	12. $\frac{(-3x^6)^2}{5x^2 \cdot 3x^3} \cdot \frac{7x^{12}}{15x^6} \cdot \frac{3x^6}{5}$
13. $\left(\frac{4x^4y^2}{6xy}\right)^2 \cdot \frac{16x^8y^4}{36x^2y^2}$ $\frac{4x^6y^2}{9}$	14. $\frac{7b^{-3} \cdot 3b^{-2}}{6b^2} = \frac{7}{2b^7}$
15. $\frac{-9n^6}{27n^{10}}$ $-\frac{1}{3n^4}$	16. $\frac{a^{12}b^{-3}}{(ab)^{-4}} = \frac{a^{12}a^4b^4}{b^3} = a^{16}b$

# Exponents And Exponential Functions Punchline Answers

**H Kauffman**



## **Exponents And Exponential Functions Punchline Answers:**

A Programmed Sequence on Exponential Notation Eugene Roberts, 1962      Exponential Functions Alpha & Omega Publishing, 2001-03-01      Problems in Exponents Richard S. Hammond, 2019-03-08 Exponents are one of the most important basics of Mathematics especially in calculation Exponents are also used in some important applications This includes compound interest the growth of population and bacteria growth That is understanding well about the definitions and properties of exponents are really needed in learning Mathematics Problems in Exponents is a book that was written about the foundations of exponents There are three main chapters in this little book The first chapter of this book is about the answers to the question what is exponents This chapter will relate the readers to the definition of exponents and some significant properties of them such as the multiplication or division of two powers that have the same base power of power the 0th power of a number etc The second chapter of this book is about exponential equations This chapter is little bit harder than the first chapter of this book In this chapter we tell the readers about the rule in solving exponential equations We give some examples to illustrate about how to solve exponential equations Additionally there are some exercises at the end of the chapter We list some good problems to the readers to solve it by using what they have learnt in the first two chapters The last part of this book is about exponential inequalities Another important section in exponents is exponential inequalities In this chapter we explain the readers by using problem solution strategy We solve all of problems step by step We try to simplify this book to help readers understand clearly about exponents We hope this little book will become the readers close friend when they think about exponents Richard S Hammond      **Tables of the Exponential Function and of the Circular Sine and Cosine to Radian Argument** C. van Orstrand, 2013-10-03 The tables accompanying this paper have been prepared with the expectation of meeting a twofold requirement The first was to obtain a few high place values at sufficiently small intervals of argument for general use in the evaluation of integrals and other functions the other object was to obtain a basis for subsequent interpolation to small intervals of argument for use in the construction of complete 10 place tables which are applicable in the various fields of pure and applied mathematics The need of tables meeting these and other requirements has been emphasized by various authors The most important tables of extended values of the exponential function in which the exponents are integers or fractions have been constructed by Schulze Bretschneider Newman Gram Glaisher and Burgess Bretschneider included a few high place values of the circular sine and cosine to radian argument but with the exception of these and a few values computed by Gudermann there appears to be no extended values of these important functions Schulze gives values of the ascending exponential at intervals of unity between the limits 1 and 24 inclusive to 28 or 29 significant figures and for the special arguments 25 30 and 60 his values include 32 or 33 figures In so far as I have been able to ascertain Schulze gives no information regarding methods of computation or accuracy of results Glaisher verified the first 15 figures of Schulze's value of  $e^{16}$  by direct substitution in the series the first 13 powers of  $e$  were

verified to 22 places of decimals and the values of  $e_{14}$   $e_{15}$   $e_{25}$  to 15 places of decimals by means of the relation

This book delves into Exponents And Exponential Functions Punchline Answers. Exponents And Exponential Functions Punchline Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Exponents And Exponential Functions Punchline Answers, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to Exponents And Exponential Functions Punchline Answers
    - Chapter 2: Essential Elements of Exponents And Exponential Functions Punchline Answers
    - Chapter 3: Exponents And Exponential Functions Punchline Answers in Everyday Life
    - Chapter 4: Exponents And Exponential Functions Punchline Answers in Specific Contexts
    - Chapter 5: Conclusion
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  6. In chapter 5, the author will draw a conclusion about Exponents And Exponential Functions Punchline Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Exponents And Exponential Functions Punchline Answers.

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