# LAWS OF EXPONENTS

## Law

1. 
$$a^m a^n = a^{m+n}$$

2. 
$$\frac{a^m}{a^n} = a^{m-n}$$

3. 
$$(a^m)^n = a^{mn}$$

$$4. (ab)^n = a^n b^n$$

$$5. \left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$6. \left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n$$

7. 
$$\frac{a^{-n}}{b^{-m}} = \frac{b^m}{a^n}$$

# Example

$$3^2 \cdot 3^5 = 3^{2+5} = 3^7$$

$$\frac{3^5}{3^2} = 3^{5-2} = 3^3$$

$$(3^2)^5 = 3^{2\cdot 5} = 3^{10}$$

$$(3 \cdot 4)^2 = 3^2 \cdot 4^2$$

$$\left(\frac{3}{4}\right)^2 = \frac{3^2}{4^2}$$

$$\left(\frac{3}{4}\right)^{-2} = \left(\frac{4}{3}\right)^2$$

$$\frac{3^{-2}}{4^{-5}} = \frac{4^5}{3^2}$$

# **Algebra Extending The Law Of Exponents Key**

## **ANUBHUTI GANGAL**

#### **Algebra Extending The Law Of Exponents Key:**

E-math Ii' 2007 Ed.(intermediate Algebra), **Teaching and Learning Algebra** Doug French, 2005-08-15 Algebra is widely recognised to be a difficult aspect of the Mathematics curriculum one that not all pupils see the point of Yet an understanding of algebra provides the key to the great power and potential interest of Mathematics in general Up to now detailed advice and guidance on the teaching and learning of algebra has been difficult to find Here however Doug French provides a comprehensive authoritative and above all constructive guide to the subject FSA Algebra I for Beginners Reza Nazari, 2023-03-26 The Ultimate Guide to Mastering FSA Algebra I The Only Book You Will Ever Need to Ace the Florida Standards Assessments FSA Algebra I Test The FSA Algebra I exam is a crucial assessment that plays a significant role in determining if students will graduate from high school Our all inclusive guide aims to equip you with the necessary skills and knowledge to excel on this high stakes test and secure your diploma Key Topics Explored FSA Algebra I for Beginners Success delves into all the vital subjects required for the FSA Algebra I Test including Linear equations and their graphical representations Quadratic equations and their respective functions Systems of equations and their solutions Exponential functions Essential statistical concepts and methods Engaging Practice Problems To reinforce your understanding of each concept the guide features numerous practice problems throughout These problems are devised to be challenging yet achievable giving you the confidence that you re well prepared for the actual test Authentic Full Length Practice Tests Included in the guide are two full length practice exams that provide a realistic evaluation of your progress and help you pinpoint any areas that may require further practice Straightforward and Easy to Understand Language The guide is composed in a clear and concise manner that is easily comprehensible Regardless of your mathematical expertise you can effortlessly follow the instructions and solve the problems presented Ideal for All Skill Levels Whether you re a high school student grappling with algebraic concepts or an adult learner seeking to brush up on your skills this guide is tailored to meet your needs It is designed to be accessible and covers all the crucial topics you must understand The Singular Resource for FSA Algebra I Success FSA Algebra I for Beginners is the only resource you ll need to triumph in the FSA Algebra I Test With its exhaustive content coverage and easy to grasp material this guide will enable you to conquer algebra and excel on the exam Order Your Copy Today Purchase your copy of FSA Algebra I for Beginners today and begin your journey toward test preparedness With this guide in hand you ll be well equipped to pass the test and attain your diploma

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