

Name Nazari M Date 12/7 Period 7

Algebra 2 – Ch8.6 – Solving Exponential and Logarithmic Equations – Assignment

1. Solve:

A. $\ln(2x+3) = \ln(5x+18)$ $\begin{aligned} (2x+3) &= (5x+18) \\ -2x &-18 \\ -15 &= 3x \\ \frac{-15}{3} &= \frac{3x}{3} \\ x &= -5 \end{aligned}$	B. $\ln x = 4.2$ $e^{4.2} = x$ $\boxed{66.686}$	C. $\log_3 x = 9$ $3^9 = x$ $\boxed{x = -19,683}$
D. $8.2 = \log_3(x+1)^4$ $\sqrt[4]{3^{8.2}} = \sqrt[4]{(x+1)^4}$ $\begin{aligned} 9.5 &= x+1 \\ -1 &-1 \\ \boxed{8.5} &= x \end{aligned}$	E. $25 = \frac{20e^{0.02t}}{20}$ $1.25 = \ln \cdot 0.02^t$ $t = \frac{\ln 1.25}{0.02}$ $t \approx 11.157$	F. $\log_5(3x+1) = 2$ $5^2 = 3x+1$ $\begin{aligned} 25 &= 3x+1 \\ -1 &-1 \\ \frac{24}{3} &= \frac{3x}{3} \\ \boxed{x} &= 8 \end{aligned}$

2. Solve each equation.

$21-2x = 242$ $-21 \quad -21$ $-2x = 221$ $\frac{-2x}{-2} = \frac{221}{-2}$ $x = -110.5$	$5^{2x+1} = 125$ $5^{2x+1} = 5^3$ $2x+1 = 3$ $2x = 2$ $\frac{2x}{2} = \frac{2}{2}$ $x = 1$
$2^{x+1} = 16$ $2^{x+1} = 2^4$ $x+1 = 4$ $x = 3$	$3^{x+2} = 27$ $3^{x+2} = 3^3$ $x+2 = 3$ $x = 1$

Algebra 2 Exponential Matching Activity Answer Key

Hussin A.Rothana



Algebra 2 Exponential Matching Activity Answer Key:

Differentiating Instruction in Algebra 1 Kelli Jurek, 2021-09-03 Teachers often have too little time to prepare differentiated lessons to meet the needs of all students Differentiating Instruction in Algebra 1 provides ready to use resources for Algebra 1 students The book is divided into four units introduction to functions and relationships systems of linear equations exponent rules and exponential functions and quadratic functions Each unit includes big ideas essential questions the Common Core State Standards addressed within that section pretests learning targets varied activities and answer keys The activities offer choices to students or three levels of practice based on student skill level Differentiating Instruction in Algebra 1 is just the resource math teachers need to provide exciting and challenging algebra activities for all students Grades 7 10 **Algebra 2, Vol. III: Lessons 91 - 135** Quantum Scientific Publishing, 2023-06-11 Quantum Scientific Publishing QSP is committed to providing publisher quality low cost Science Technology Engineering and Math STEM content to teachers students and parents around the world This book is the third of four volumes in Algebra 2 containing lessons 91 135 Volume I Lessons 1 45 Volume II Lessons 46 90 Volume III Lessons 91 135 Volume IV Lessons 136 180 This title is part of the QSP Science Technology Engineering and Math Textbook Series Graphing Calculator Strategies: Algebra Pamela H. Dase, 2006-12-04 Integrate TI Graphing Calculator technology into your algebra instruction with this award winning resource book Perfect for grades 6 12 this resource includes lessons problem solving practice and step by step instructions for using graphing calculator technology 238pp plus Teacher Resource CD with PDF files of the tables templates activity sheets and student guides for TI 83 84 Plus Family and TI 73 Explorer This resource is correlated to the Common Core State Standards is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills and supports core concepts of STEM instruction *Calculus for JEE Advanced, 3E (Free Sample)* G. Tewani, 2022-05-19 Calculus for JEE Advanced a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of mathematics from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers **Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12** Gary R. Muschla, 2015-04-17 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9 12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions

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Muschla-Berry,2015-12-21 Help your students succeed with classroom ready standards based activities The Algebra Teacher s Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it s crucial that students master the material and gain confidence in their abilities The Algebra Teacher s Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond *Teaching Secondary and Middle School Mathematics* Daniel J. Brahier,2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching

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Investigating Mathematics with the TI-81 David E. Williams, Thomas L. Scott, 1993 **Catalog of National Bureau of Standards Publications, 1966-1976** United States. National Bureau of Standards. Technical Information and Publications Division, 1978

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