

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. $\frac{25}{20} = \frac{20e^{0.02t}}{20}$ $1.25 = \ln \cdot 0.02^t$ $t = \frac{\ln 1.25}{0.02}$ $t \approx 11.157$	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.

$2^{1-2x} = 2^{x+2}$ $1-2x = x+2$ $-3x = 1$ $x = -\frac{1}{3}$	$5^{2x-1} = 5^{x+3}$ $2x-1 = x+3$ $x = 4$
$4^{x-1} = 16$ $4^{x-1} = 4^2$ $x-1 = 2$ $x = 3$	$2^{x+1} = 8$ $2^{x+1} = 2^3$ $x+1 = 3$ $x = 2$

Answers Algebra 2 Solving Exponential Equations

Mary Jane Sterling



Answers Algebra 2 Solving Exponential Equations:

Algebra 2 Workbook Reza Nazari, Ava Ross, 2018-07-01 The Only Book You will Ever Need to ACE the Algebra 2 Exam Algebra 2 Workbook provides students with the confidence and math skills they need to succeed in any math course they choose and prepare them for future study of Pre Calculus and Calculus providing a solid foundation of Math topics with abundant exercises for each topic It is designed to address the needs of math students who must have a working knowledge of algebra This comprehensive workbook with over 2 500 sample questions is all you need to fully prepare for your algebra 2 course It will help you learn everything you need to ace the algebra 2 exam Inside the pages of this comprehensive workbook students can learn algebra operations in a structured manner with a complete study program to help them understand essential math skills It also has many exciting features including Dynamic design and easy to follow activities A fun interactive and concrete learning process Targeted skill building practices Fun exercises that build confidence Math topics are grouped by category so you can focus on the topics you struggle on All solutions for the exercises are included so you will always find the answers Algebra 2 Workbook is an incredibly useful tool for those who want to review all topics being taught in algebra 2 courses It efficiently and effectively reinforces learning outcomes through engaging questions and repeated practice helping you to quickly master Math skills Published by Effortless Math Education www.EffortlessMath.com

Algebra and Trigonometry Cynthia Y. Young, 2017-11-20 Cynthia Young's Algebra Trigonometry Fourth Edition will allow students to take the guesswork out of studying by providing them with a clear roadmap what to do how to do it and whether they did it right while seamlessly integrating to Young's learning content Algebra Trigonometry Fourth Edition is written in a clear single voice that speaks to students and mirrors how instructors communicate in lecture Young's hallmark pedagogy enables students to become independent successful learners Varied exercise types and modeling projects keep the learning fresh and motivating Algebra Trigonometry 4e continues Young's tradition of fostering a love for succeeding in mathematics

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chemistry to grammar and Spanish our expert authors focus on the skills students most need to succeed in a subject

Algebra II For Dummies Mary Jane Sterling, 2018-12-12 Algebra II For Dummies 2nd Edition 9781119543145 was previously published as Algebra II For Dummies 2nd Edition 9781119090625 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product Your complete guide to acing Algebra II Do quadratic equations make you queasy Does the mere thought of logarithms make you feel lethargic You're not alone Algebra can induce anxiety in the best of us especially for the masses that have never counted math as their forte But here's the good news you no longer have to suffer through statistics sequences and series alone Algebra II For Dummies takes the fear out of this math course and gives you easy to follow friendly guidance on everything you'll encounter in the classroom and arms you with the skills and confidence you need to score high at exam time Gone are the days that Algebra II is a subject that only the serious math students need to worry about Now as the concepts and material covered in a typical Algebra II course are consistently popping up on standardized tests like the SAT and ACT the demand for advanced guidance on this subject has never been more urgent Thankfully this new edition of Algebra II For Dummies answers the call with a friendly and accessible approach to this often intimidating subject offering you a closer look at exponentials graphing inequalities and other topics in a way you can understand Examine exponentials like a pro Find out how to graph inequalities Go beyond your Algebra I knowledge Ace your Algebra II exams with ease Whether you're looking to increase your score on a standardized test or simply succeed in your Algebra II course this friendly guide makes it possible

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Table of Contents Answers Algebra 2 Solving Exponential Equations

1. Understanding the eBook Answers Algebra 2 Solving Exponential Equations
 - The Rise of Digital Reading Answers Algebra 2 Solving Exponential Equations
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Algebra 2 Solving Exponential Equations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers Algebra 2 Solving Exponential Equations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Algebra 2 Solving Exponential Equations
 - Personalized Recommendations
 - Answers Algebra 2 Solving Exponential Equations User Reviews and Ratings

- Answers Algebra 2 Solving Exponential Equations and Bestseller Lists
- 5. Accessing Answers Algebra 2 Solving Exponential Equations Free and Paid eBooks
 - Answers Algebra 2 Solving Exponential Equations Public Domain eBooks
 - Answers Algebra 2 Solving Exponential Equations eBook Subscription Services
 - Answers Algebra 2 Solving Exponential Equations Budget-Friendly Options
- 6. Navigating Answers Algebra 2 Solving Exponential Equations eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Algebra 2 Solving Exponential Equations Compatibility with Devices
 - Answers Algebra 2 Solving Exponential Equations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Algebra 2 Solving Exponential Equations
 - Highlighting and Note-Taking Answers Algebra 2 Solving Exponential Equations
 - Interactive Elements Answers Algebra 2 Solving Exponential Equations
- 8. Staying Engaged with Answers Algebra 2 Solving Exponential Equations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Algebra 2 Solving Exponential Equations
- 9. Balancing eBooks and Physical Books Answers Algebra 2 Solving Exponential Equations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Algebra 2 Solving Exponential Equations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Algebra 2 Solving Exponential Equations
 - Setting Reading Goals Answers Algebra 2 Solving Exponential Equations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Algebra 2 Solving Exponential Equations
 - Fact-Checking eBook Content of Answers Algebra 2 Solving Exponential Equations
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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