

7-2 Study Guide and Intervention

Solving Exponential Equations and Inequalities

Solve Exponential Equations All the properties of rational exponents that you know also apply to real exponents. Remember that $a^m \cdot a^n = a^{m+n}$, $(a^m)^n = a^{mn}$, and $a^m \div a^n = a^m \cdot a^{m-n}$.

Property of Equality for Exponential Functions	If a is a positive number other than 1, then $a^x = a^y$ if and only if $x = y$.
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Example 1: Solve $4^{x-1} = 2^{x+5}$.

$4^{x-1} = 2^{x+5}$	Original equation
$(2^2)^{x-1} = 2^{x+5}$	Rewrite 4 as 2^2 .
$2(x-1) = x+5$	Prop. of Equality for Exponential Functions
$2x - 2 = x + 5$	Distributive Property
$x = 7$	Subtract x and add 2 to each side.

Example 2: Write an exponential function whose graph passes through the points (0, 3) and (4, 81).

The y -intercept is (0, 3), so $a = 3$. Since the other point is (4, 81), $81 = 3^4$.
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Simplifying $3^4 = 81$, the equation is $y = 3(2,250)^x$.

Exercises

Solve each equation.

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|-------------------------|-----------------------------|---|
| 1. $3^{2x-1} = 3^x + 2$ | 2. $2^{3x} = 8^x + 7$ | 3. $3^{2x-1} = \frac{9}{3}$ |
| 4. $4^{x+1} = 8^{2x+3}$ | 5. $6^{x-2} = \frac{1}{36}$ | 6. $25^{3x} = 125^{x+1}$ |
| 7. $9^{x+1} = 27^{x+4}$ | 8. $36^{2x+4} = 216^{x+3}$ | 9. $\left(\frac{1}{400}\right)^{x-2} = 16^{3x+1}$ |

Write an exponential function for the graph that passes through the given points.

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|-------------------------|--|-------------------------|
| 10. (0, 4) and (2, 36) | 11. (0, 6) and (1, 81) | 12. (0, 5) and (6, 320) |
| 13. (0, 2) and (5, 486) | 14. (0, 8) and $\left(3, \frac{625}{8}\right)$ | 15. (0, 1) and (4, 625) |
| 16. (0, 3) and (3, 24) | 17. (0, 12) and (4, 144) | 18. (0, 5) and (2, 45) |

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Charles C. Carico



Glencoe Solving Exponential Equations And Inequalities Practice:

Glencoe Algebra 1 Kenneth J. Travers,1990 *Glencoe Algebra 1* ,2001 *Multimedia and Videodisc Compendium* ,1995 **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 **Glencoe Algebra I** ,2003 *Reading and Writing in the Mathematics Classroom* McGraw-Hill Education,2002-07-11 Reading and Writing in the Mathematics Classroom features suggestions and activities for including reading and writing as an integral part of the mathematics curriculum It also includes suggestions for differentiated approaches to teaching mathematics for the English Language learners and inclusion students *Contemporary Mathematics in Context* ,2003 **Impact Mathematics** ,2004 *Algebra 1* ,2003 **Books in Series** ,1980 *Algebra 1* Collins Publishers Staff,William Collins,Gilbert J. Cuevas,Russell J. Foster,Gordon Staff,Moore-Harris,Rath,William L. Swart,Winters,1998 **Algebra 2, Homework Practice Workbook** McGraw-Hill Education,2008-12-10 The Homework Practice Workbook contains two worksheets for every lesson in the Student Edition This workbook helps students Practice the skills of the lesson Use their skills to solve word problems **Equations and Inequalities** Jiri Herman,Radan Kucera,Jaromir Simsa,2000-03-23 A look at solving problems in three areas of classical elementary mathematics equations and systems of equations of various kinds algebraic inequalities and elementary number theory in particular divisibility and diophantine equations In each topic brief theoretical discussions are followed by carefully worked out examples of increasing difficulty and by exercises which range from routine to rather more challenging problems While it emphasizes some methods that are not usually covered in beginning university courses the book nevertheless

teaches techniques and skills which are useful beyond the specific topics covered here With approximately 330 examples and 760 exercises **Equations and Inequalities in One Variable** Charles C. Carico,1974 **Equations and Inequalities** Guido Walz,2021-07-02 The book teaches the basics of solving equations and inequalities in easily understandable language One of the main topics is the solving of quadratic equations regardless of whether they already exist in normal form or have to be brought into it first The author treats the p q formula and the midnight formula as tools for this purpose In addition the book deals with linear equations and in general with the question of which manipulations one may make on an equation without changing its solutions Furthermore the most important inequalities are treated and strategies for their solution are shown This Springer essential is a translation of the original German 1st edition essentials Gleichungen und Ungleichungen by Guido Walz published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2018 The translation was done with the help of artificial intelligence machine translation by the service DeepL.com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors Equations, Inequalities and Graphs (IGCSE Math) Lee Jun Cai, Confused about the various concepts on Equations Inequalities and Graphs taught in school or simply want more practice questions This book on Equations Inequalities and Graphs seeks to offer a condensed version of what you need to know for your journey in IGCSE Mathematics alongside with detailed worked examples and extra practice questions Tips on certain question types are provided to aid in smoothing the working process when dealing with them **Equations and inequalities** V. V. Vavilov,1990 *Numerical Solution of Exponential Equations* Rand Corporation,T.A. Brown,1970 *Solving Math Quadratic Equations And Inequalities* Karen Kusanovich,Wendy Lawson,Nghi H. Nguyen,2005-03-01 New methods to quickly solve quadratic equations globally used methods for solving quadratic inequalities and innovative number line and graphic approaches **Linear Equations, Inequalities, and Functions** Wendy Lawson,Nguyen Nghi H.,2005 Supplemental math textbook for high school students with innovative features shortcuts in solving linear equations and inequalities innovative techniques in solving by number line innovative approaches in solving by graphing using graphing calculators

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