

ALGEBRA 2

EQUATIONS & INEQUALITIES

REAL NUMBERS

Properties of real numbers:

- Commutative
- Associative
- Identity
- Inverse
- Closure

Algebra 2 Homework - Lesson 1.3 Solving Equations

Write the verbal equation into an algebraic equation.

Three times the sum of x and seven is equal to x squared.

$$3(x + 7) = x^2$$

COMPOUND & ABSOLUTE VALUE INEQUALITIES

Compound Inequality: $a < b$ and $c < d$ is $a < b$ and $c < d$.
Compound Inequality: $a < b$ or $c < d$ is $a < b$ or $c < d$.

Absolute Value Inequality: $|x - a| < b$ is $a - b < x < a + b$.
Absolute Value Inequality: $|x - a| > b$ is $x < a - b$ or $x > a + b$.

SOLVING EQUATIONS

Equation	One Step	Two Step
$x + 3 = 10$	$x = 7$	$x = 7$
$-4x = 12$	$x = -3$	$x = -3$
$x - 2 = 5$	$x = 7$	$x = 7$
$2x + 3 = 15$	$x = 6$	$x = 6$
$5x + 12 = 27$	$x = 3$	$x = 3$
$-3x + 4 = 16$	$x = -4$	$x = -4$

Equation	Three Step	Four Step
$3x - 5 = 10$	$x = 5$	$x = 5$
$4x + 7 = 25$	$x = 4$	$x = 4$
$5x - 12 = 27$	$x = 9$	$x = 9$
$-2x + 15 = 3$	$x = 6$	$x = 6$
$3x + 8 = 20$	$x = 4$	$x = 4$
$-4x - 1 = 15$	$x = -4$	$x = -4$

Equation	Five Step	Six Step
$2x + 3 = 15$	$x = 6$	$x = 6$
$4x - 5 = 10$	$x = 5$	$x = 5$
$5x + 12 = 27$	$x = 3$	$x = 3$
$-3x + 4 = 16$	$x = -4$	$x = -4$
$3x - 5 = 10$	$x = 5$	$x = 5$
$4x + 7 = 25$	$x = 4$	$x = 4$

ABSOLUTE VALUE EQUATIONS

Example 1: $|x - 3| = 5$
 $x - 3 = 5$ or $x - 3 = -5$
 $x = 8$ or $x = -2$

Example 2: $|2x + 1| = 7$
 $2x + 1 = 7$ or $2x + 1 = -7$
 $2x = 6$ or $2x = -8$
 $x = 3$ or $x = -4$

EXERCISES

1. Solve the equation for x .
 $|x - 3| = 5$
 $x = 8$ or $x = -2$

2. Solve the equation for x .
 $|2x + 1| = 7$
 $x = 3$ or $x = -4$

CHAPTER 1 RESOURCES



Algebra 2 Chapter Equations And Inequalities

M Walker



Algebra 2 Chapter Equations And Inequalities:

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 activitiesA fun interactive and concrete learning processTargeted skill building practicesFun exercises that build confidenceMath topics are grouped by category so you can focus on the topics you struggle onAll 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 *Key Maths* David Baker,2001 Planned developed and written by practising classroom teachers with a wide variety of experience in schools this maths course has been designed to be enjoyable and motivating for pupils and teachers The course is open and accessible to pupils of all abilities and backgrounds and is differentiated to provide material which is appropriate for all pupils It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice This teacher s file is designed for stage three of Year 9 **Algebra 2: The Easy Way** Meg Clemens,Glenn Clemens,2019-09-03 A self teaching guide for students Algebra 2 The Easy Way provides easy to follow lessons with comprehensive review and practice This edition features a brand new design and new content structure with illustrations and practice questions An essential resource for High school and college courses Virtual learning Learning pods Homeschooling Algebra 2 The Easy Way covers Linear Functions Absolute Value and Quadratic Functions Polynomial Operations and Functions Statistics Modeling And more Algebra I ,2001 *Mathematical Principles* Pasquale De Marco,2025-05-06 Welcome to the world of algebra where symbols equations and functions come together to reveal the underlying order and harmony of the universe Mathematical Principles is a comprehensive and accessible introduction to this fascinating subject guiding readers on a journey through its fundamental concepts and techniques Beginning with the basics this book lays a solid foundation for understanding more advanced topics Readers will explore the building blocks of algebra including variables expressions and functions They will learn how to solve equations and inequalities manipulate expressions and graph functions Along the way they will discover the power of algebraic thinking and its ability to illuminate the world around us

Mathematical Principles is more than just a textbook It is an invitation to explore the beauty and elegance of algebra With clear explanations engaging examples and thought provoking exercises this book brings algebra to life Readers will gain a deep appreciation for the subject and develop the skills to apply it to a wide range of real world problems Whether you are a student a professional or simply someone with a curious mind Mathematical Principles is the perfect book for you It is a comprehensive and accessible guide to algebra that will provide you with a solid understanding of this essential subject Key Features Clear and concise explanations of algebraic concepts and techniques Engaging examples and thought provoking exercises A focus on real world applications of algebra Comprehensive coverage of all major algebraic topics Mathematical Principles is the perfect book for anyone who wants to learn algebra or deepen their understanding of this essential subject With its clear explanations engaging examples and thought provoking exercises this book will guide you on a journey into the world of algebra and reveal its beauty and power If you like this book write a review on google books *Algebra 2 Chapter 6 Resource Masters* McGraw-Hill Staff,2002-05 Prentice Hall Algebra 2 Prentice Hall (School Division),2002-09

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 Numbers in our Hands Pasquale De Marco,2025-05-13 Numbers in our Hands is a comprehensive and accessible introduction to the world of numbers It is a must read for anyone who wants to understand the role that numbers play in our lives Numbers are not just abstract concepts They are tools that we use to make sense of the world around us By understanding the nature of numbers we can better understand the world we live in Numbers are also beautiful They have a symmetry and a harmony that is both pleasing to the eye and the mind The study of numbers can be a rewarding and enjoyable experience In Numbers in our Hands Pasquale De Marco explores the fascinating world of numbers From the natural numbers that we use to count to the complex numbers that are used in advanced mathematics Pasquale De Marco explains the history the properties and the applications of numbers Along the way Pasquale De Marco shows us how numbers have been used to solve some of the most challenging problems in science and engineering We learn how the ancient Greeks used geometry to measure the Earth how Isaac Newton used calculus to develop the laws of motion and how modern computers use algebra to solve complex problems Numbers in our Hands is a book for anyone who is interested in the world of numbers It is a book for students for teachers for scientists and for anyone who wants to learn more about the role that numbers play in our lives If you like this book write a review on google books **Algebra 2** Michael Smith,2021-02-01 Get the Targeted Practice You Need to Ace the Algebra 2 Exam Algebra 2 includes easy to follow instructions helpful examples and plenty of algebraic practice problems to assist students to master each concept brush up

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