

Math

Common Core State Standards

High School Algebra 2

Complex Numbers, Quadratics, Polynomials, Trigonometry, Data Analysis, and More!

COMPLEX NUMBERS H.OA.1, H.OA.3

Definitions

The real number system is made up of natural numbers, whole numbers, integers, rational numbers, and irrational numbers. The set of real numbers is a subset of another set of numbers called complex numbers. This is illustrated in the Venn diagram.

The imaginary unit i is defined as $i = \sqrt{-1}$ or $i^2 = -1$. A complex number is a number with the form $a + bi$, where a and b are real numbers. The complex number has a real part, a , and an imaginary part, bi . Numbers of the form bi such as $3i$, $-12i$, and $0.4i$ are called pure imaginary numbers because they do not have a real part.

EX: $2 + 3i$ is a complex number with real part 2 and imaginary part $3i$.

EX: $-6i$ is a pure imaginary number.

Operations with Complex Numbers

Complex numbers can be added, subtracted, and multiplied as you would binomials. When simplifying expressions that involve complex numbers, the real parts and imaginary parts are treated as unlike terms. The commutative, associative, and distributive properties apply to complex numbers.

EX: Add $(4 + 6i) + (-2 + i)$.

$$4 + 2 + 6i + i$$

$$(4 + 2) + (6i + i)$$

$$2 + 7i$$

Use the commutative property of addition.

Use the associative property of addition to group the real parts and the imaginary parts.

Simplify.

EX: Simplify $3(2 + 5i) - 6i$.

$$3(2) + 3(5i) - 6i$$

$$6 + 15i - 6i$$

$$6 + 9i$$

Use the distributive property.

Multiply.

Simplify.

EX: Multiply $(1 + 3i)(4 - 2i)$.

$$1(4) + 1(-2i) + (3i)(4) + (3i)(-2i)$$

$$4 - 2i + 12i - 6i^2$$

$$4 - 2i + 12i - 6(-1)$$

$$4 + 6 - 2i + 12i$$

$$10 + 10i$$

Use the FOIL method.

Simplify.

$i^2 = -1$.

Simplify and regroup.

Simplify.



Complex Conjugates

Two complex numbers of the form $a + bi$ and $a - bi$ are called complex conjugates. When you multiply two complex conjugates, the result is always a real number.

EX: Multiply $(5 + 2i)(5 - 2i)$.

$$5(5) + 5(-2i) + (2i)(5) + (2i)(-2i)$$

$$25 - 10i + 10i - 4i^2$$

$$25 - 10i + 10i - 4(-1)$$

$$25 + 4$$

$$29$$

Use the FOIL method.

Simplify.

$i^2 = -1$.

Simplify.

Add.

To divide complex numbers, multiply both the numerator and denominator by the complex conjugate of the denominator.

EX: Simplify $\frac{2 - 4i}{1 + 3i}$.

$$\frac{2 - 4i}{1 + 3i} \cdot \frac{1 - 3i}{1 - 3i}$$

$$\frac{(2 - 4i)(1 - 3i)}{(1 + 3i)(1 - 3i)}$$

$$\frac{2(1) + 2(-3i) + (-4i)(1) + (-4i)(-3i)}{1(1) + 3(-3i) + 3i(1) + 3i(-3i)}$$

$$\frac{2 - 6i - 4i + 12i^2}{1 - 3i + 3i - 9i^2}$$

$$\frac{2 - 6i - 4i + 12(-1)}{1 - 3i + 3i - 9(-1)}$$

$$\frac{-10 - 10i}{10}$$

$$-1 - i$$

Multiply the numerator and denominator by the complex conjugate of the denominator, $1 - 3i$.

Multiply numerators and denominators.

Use the FOIL method.

Simplify.

$i^2 = -1$.

Simplify.

Simplify.

Math Practice 2: Reason abstractly and quantitatively.

Working with imaginary numbers may seem like an exercise in pure, inapplicable math, but complex numbers are actually used to model phenomena in many applied fields such as electrical engineering and physics.

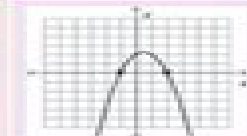
QUADRATIC EQUATIONS H.OA.7

A quadratic equation is an equation of the form $ax^2 + bx + c = 0$, where $a \neq 0$. The roots of a quadratic equation are the values of x that make the equation true. A quadratic equation can have real or complex roots. If the graph of the related quadratic function intersects the x -axis at two different points, the equation has two distinct, real roots. If the related quadratic function intersects the x -axis at one point, then the equation has a real double root. If the related quadratic function does not intersect the x -axis, then the equation has two complex roots.

2 real roots

1 real double root

2 complex roots
(no real roots)



The Quadratic Formula

The Quadratic Formula can be used to solve any quadratic equation of the form $ax^2 + bx + c = 0$. The roots of the equation are given by the formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

EX: Solve $3x^2 - 6x - 24 = 0$ using the Quadratic Formula.

$$a = 3, b = -6, c = -24$$

Identify the coefficients and constant.

$$x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(3)(-24)}}{2(3)}$$

Substitute into the Quadratic Formula.

$$x = \frac{6 \pm 18}{6}$$

Simplify.

$$x = 4 \text{ or } x = -2$$

Simplify.

The roots of the equation are $x = 4$ and $x = -2$.

The Discriminant

In the Quadratic Formula, the expression under the radical symbol determines the number and type of roots of a quadratic equation. The expression $b^2 - 4ac$ is called the discriminant.

Discriminant Value	Number & Type of Roots
$b^2 - 4ac > 0$ and is a perfect square	2 real, rational roots
$b^2 - 4ac > 0$ and is not a perfect square	2 real, irrational roots
$b^2 - 4ac = 0$	1 real double root
$b^2 - 4ac < 0$	2 complex roots

Math Common Core Algebra 2 11th Grade

M. Bruce King



Math Common Core Algebra 2 11th Grade:

Math Common Core Algebra 2 - 11Th Grade BarCharts, Inc, Ken Yablonsky, 2014-05-31 Students parents and teachers can easily find answers related to the specific requirements of The Common Core State Standards for Mathematics This set of expectations and skills need to be mastered to succeed in school college and the real world The QuickStudy series aligns with those standards being implemented in most states to help guide students through their classes and to support parents helping their students succeed Each guide in the series focuses on critical areas of the curriculum and features real world problems examples illustrations and tables to help students excel **Math 3 Common Core 11th Grade (Speedy Study Guides)** Speedy Publishing, 2015-05-25 Math for 11th grade is a bit more complicated so constant practice is highly encouraged You will be dealing with a lot of invisible numbers taunting your rationality But if you are constantly exposed to concepts and are given enough opportunities to challenge your learning then you should be able to ace your tests This study guide is your go to prior to exams Buy a copy now **Common Core Math For Parents For Dummies with Videos Online** Christopher Danielson, 2015-03-27 Help your child succeed with a better understanding of Common Core Math Common Core Math For Parents For Dummies is packed with tools and information to help you promote your child s success in math The grade by grade walk through brings you up to speed on what your child is learning and the sample problems and video lessons help you become more involved as you study together You ll learn how to effectively collaborate with teachers and keep tabs on your child s progress so minor missteps can be corrected quickly before your child falls behind The Common Core was designed to improve college and career readiness and to prepare U S students to be more competitive on an international stage when it s time to enter the workforce This guide shows you how the standards were created and how they ve evolved over time to help ensure your child s future success The Common Core Math Standards prepare students to do real math in the real world Many new teaching methods are very different from the way most parents learned math leading to frustration and confusion as parents find themselves unable to help with homework or explain difficult concepts This book cuts the confusion and shows you everything you need to know to help your child succeed in math Understand the key concepts being taught in your child s grade Utilize the homework tools that help you help your child Communicate more effectively with your child s teacher Guide your child through sample problems to foster understanding The Common Core was designed to ensure that every student regardless of location or background receives the education they need Math skills are critical to real world success and the new standards reflect that reality in scope and rigorousness Common Core Math For Parents For Dummies helps you help your child succeed **Eureka Math Curriculum Study Guide** Common Core, 2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the

curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 5 provides an overview of all of the Grade 5 modules including Place Value and Decimal Fractions Multi Digit Whole Number and Decimal Fraction Operations Addition and Subtraction of Fractions Multiplication and Division of Fractions and Decimal Fractions Addition and Multiplication with Volume and Areal Problem Solving with the Coordinate Plane

Mathematics Alpha Omega Publications, Incorporated, 1998-04-01

Differentiating Instruction

Jacqueline S. Thousand, Richard A. Villa, Ann I. Nevin, 2014-11-14 The ultimate guide to leaving no child behind newly updated Now in its second edition this best selling book is your one stop resource for differentiated instruction Whether you re new to the concept or just looking to improve your approach you ll find tools to meet the needs of all your students in a way that works for you You ll discover how innovative approaches such as Universal Design for Learning UDL and retrofitting can help you adapt general education curriculum to fit diverse learning styles Featuring case studies at the elementary middle and high school levels this new edition offers More easy to use strategies to differentiate instruction in mixed ability classrooms A new chapter on collaborative planning and evaluation plus a discussion of co teaching and differentiation Updated lesson plans tied to the Common Core A greater emphasis on cultural proficiency ELLs and gifted students New technology references and resources A strengthened link to RTI Every student is different and every classroom is different too With multiple options to differentiate instruction at any point along the way this essential guide will help you create the path to success for every student Thousand Villa and Nevin take three very big ideas in education Universal Design Collaboration and Differentiated Instruction and combine them in a novel and engaging way And they practice what they preach the information and examples speak to someone just beginning to differentiate instruction as well as the expert who wants to further refine his or her craft Douglas Fisher Professor San Diego State University The extensive emphasis on technology case studies and lesson plans throughout the book provide a rich resource to the readers of this exciting text Administrators university instructors and staff developers will find this a valuable tool to support their students and colleagues on their

differentiation journey Mary Falvey Retired Dean and Professor Emeritus California State University Los Angeles

Common Core Nicholas Tampio, 2018-03-01 How the Common Core standardizes our kids education and how it threatens our democracy The Common Core State Standards Initiative is one of the most controversial pieces of education policy to emerge in decades Detailing what and when K 12 students should be taught it has led to expensive reforms and displaced other valuable ways to educate children In this nuanced and provocative book Nicholas Tampio argues that though national standards can raise the education bar for some students the democratic costs outweigh the benefits To make his case Tampio describes the history philosophy content and controversy surrounding the Common Core standards for English language arts and math He also explains and critiques the Next Generation Science Standards the Advanced Placement US History curriculum framework and the National Sexuality Education Standards Though each set of standards has admirable elements Tampio asserts that democracies should disperse education authority rather than entrust one political or pedagogical faction to decide the country's entire philosophy of education Ultimately this lively and accessible book presents a compelling case that the greater threat to democratic education comes from centralized government control rather than from local education authorities

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2024-01-22 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The seventh edition has been updated and expanded with particular emphasis on the latest technology standards and other resources The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include Following on from the sixth edition assessment takes a central role in planning and teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to

the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8 now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor s Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com/9781032472867 **Bringing the Common Core Math Standards to Life** Yvelyne Germain-McCarthy,Ivan

Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts *How Schools and Districts Meet Rigorous Standards Through Authentic Intellectual Work* M. Bruce King,2016-04-18 Meet challenging standards by promoting students authentic intellectual work Educators have long called for more rigor and engagement in classroom work alongside calls for enhancing equity Yet classroom practices and student outcomes have been slow to change A promising solution is the research backed real world tested potential of the Authentic Intellectual Work AIW framework to meet intellectually challenging standards including Common Core This book provides Richly detailed case studies of successful AIW implementation at the statewide districtwide and individual school levels Illustrations of collaborative teaming to advance higher order thinking disciplined inquiry and value beyond school Exemplars of how AIW transforms professional development and evaluations and increases coherence and alignment of initiatives There is no such thing as a simple formula for school improvement but the AIW approaches presented in this book will help school and district based teams improve the quality of instruction assessment and curriculum for more rigorous and more equitable student learning It is inspiring to read these educators testaments to the profound personal and professional impact of their efforts to promote students authentic intellectual work Fred M Newmann Emeritus Professor University of Wisconsin Madison AIW is an instructional game changer It has brought

coherence across our district's schools as we help our teachers help students become 21st century learners Michael Duncan Superintendent Pike County Schools GA

Aligning Your Curriculum to the Common Core State Standards Joe Crawford, 2012 Avoid analysis paralysis and just get started Now that most states have adopted the new Common Core State Standards the next major challenge is to simplify and implement them by 2014 That is why it is important to begin this work now Joe Crawford Milken Award winning educator and author of *Using Power Standards to Build an Aligned Curriculum* shares his proven process for building a viable local curriculum based on the CCSS Readers will find A system for creating local standards from the CCSS Methods for connecting the common formative assessments to quarterly instructional objectives Ways to scaffold learning expectations Examples taken from districts where CCSS is currently implemented Included are helpful charts and graphs plus access to Internet based software for mapping the CCSS to curriculum instruction and assessment Schools cannot continue to do what they have always done and expect a different result This book explains how to facilitate learning for all students while taking advantage of the new culture technology and norms of today's learning environment

A Guide to Detracking Math Courses Angela Torres, Ho Nguyen, Elizabeth Hull Barnes, Laura Wentworth, 2023-05-03 Create a pathway to equity by detracking mathematics The tracked mathematics system has been operating in US schools for decades However research demonstrates negative effects on subgroups of students by keeping them in a single math track thereby denying them access to rigorous coursework needed for college and career readiness The journey to change this involves confronting some long standing beliefs and structures in education When supported with the right structures instructional shifts coalition building and educator training and support the detracking of mathematics courses can be a primary pathway to equity The ultimate goal is to increase more students access to and achievement in higher levels of mathematics learning especially for students who are historically marginalized Based on the stories and lessons learned from the San Francisco Unified School District educators who have talked the talk and walked the walk this book provides a model for all those involved in taking on detracking efforts from policymakers and school administrators to math coaches and teachers By sharing stories of real world examples lessons learned and prompts to provoke discussion about your own context the book walks you through Designing and gaining support for a policy of detracked math courses Implementing the policy through practical shifts in scheduling curriculum professional development and coaching Supporting and improving the policy through continuous research monitoring and maintenance This book offers the big ideas that help you in your own unique journey to advance equity in your school or district's mathematics education and also provides practical information to help students in a detracked system thrive

Reseller Package Algebra 2 2012 Hmh Hmh, 2012-04 On Core Mathematics is a package with a Teacher's Edition and a Student's Edition The Teacher's Edition provides lesson background for topics or skills covered questioning strategies to prompt classroom discussions all designed to integrate the Standards of Mathematical Practice into every lesson The Student Edition offers clear and concise lessons covering the

Common Core State Standards **Teaching Secondary Mathematics** David Rock, Douglas K. Brumbaugh, 2013-02-15
Solidly grounded in up to date research theory and technology Teaching Secondary Mathematics is a practical student friendly and popular text for secondary mathematics methods courses It provides clear and useful approaches for mathematics teachers and shows how concepts typically found in a secondary mathematics curriculum can be taught in a positive and encouraging way The thoroughly revised fourth edition combines this pragmatic approach with truly innovative and integrated technology content throughout Synthesized content between the book and comprehensive companion website offers expanded discussion of chapter topics additional examples and technological tips Each chapter features tried and tested pedagogical techniques problem solving challenges discussion points activities mathematical challenges and student life based applications that will encourage students to think and do New to the 4th edition A fully revised and updated chapter on technological advancements in the teaching of mathematics Connections to both the updated NCTM Focal Points as well as the new Common Core State Standards are well integrated throughout the text Problem solving challenges and sticky questions featured in each chapter to encourage students to think through everyday issues and possible solutions A fresh interior design to better highlight pedagogical elements and key features A companion website with chapter by chapter video lessons teacher tools problem solving Q As helpful links and resources and embedded graphing calculators *Math Instruction for Students with Learning Difficulties* Susan Perry Gurganus, 2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction **Teaching Young Children Mathematics** Janice Minetola, Robert Ziegenfuss, J. Kent Chrisman, 2013-09-11 Teaching Young Children Mathematics provides a comprehensive overview of mathematics instruction in the early childhood classroom Taking into account family differences language barriers and the presence of special needs students in many classrooms throughout the U S this textbook situates best practices for mathematics instruction within the larger frameworks of federal and state standards as well as contemporary understandings of child development Key topics covered include developmental information of conceptual understanding in mathematics from birth through 3rd grade use of national and state standards in math including the new Common Core State Standards information for adapting ideas to meet special needs and English Language Learners literacy connections in each chapter real world connections to the content and

information for family connections to the content **Prioritizing the Common Core** Larry Ainsworth, 2013 The consensus among educators nationwide is that in depth instruction paired with focused assessment of essential concepts and skills are far more effective than superficially covering every concept and skill in the standards Educators are faced with the task of teaching all standards while meeting the extraordinary range of student learning needs Prioritizing the Common Core offers common sense solutions to the dilemmas teachers face today in implementing the new more rigorous national standards Chapters present a rationale for prioritizing the Common Core a step by step process for prioritizing standards in language arts and mathematics strategies for soliciting feedback and input from everyone in the district or school prior to the final determination of the Priority Standards and detailed summaries of the process schools in six different districts used to identify their Priority Standards with accompanying commentary by those who directed the work *Making the Common Core Standards Work* Robert J. Manley, Richard J. Hawkins, 2012-11-20 Essential reading for school leaders Providing a blueprint for implementing and exceeding the new Common Core State Standards this practical guide focuses on realistic strategies for lasting change within schools The authors build an inspiring case for how individual schools can develop a world class education system through targeted professional development Topics include Empowering teachers and staff as partners in implementing the new standards Adapting existing curriculum to meet grade level goals for mathematics and language arts Designing assessments that measure mastery of the standards Ensuring that the standards benefit all students including multicultural learners Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Resources in Education , 1998

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