

FACTORING

UNIT

Unit 8 Lesson 1 - Factor & Solve with GCF (Day 1) NOTES		Unit 8 Lesson 1 - Factor & Solve Trinomials w/ Difference of Squares (Day 1) NOTES	
Name _____ Date _____		Name _____ Date _____	
VOCABULARY Factor - a number that divides evenly into another number. GCF (Greatest Common Factor) - largest number that divides evenly into ALL numbers.	STEPS Find the GCF (greatest common factor) and put it in front of the parentheses. Divide the problem by the GCF and place your answer inside the parentheses.	initial uses 2 different types of problems: $3x^2 + 6x + 3$ (3 terms) $x^2 + 8x + 15$ (3 terms) $3x^2 + 7x + 2$ (3 terms)	Trinomial Sign Chart Chart $x^2 + 5x + 6 = (x + 2)(x + 3)$ both factors are positive $x^2 + 5x - 6 = (x + 6)(x - 1)$ both factors are negative $x^2 - 5x + 6 = (x - 2)(x - 3)$ one factor is positive, one is negative
Unit 8 Lesson 2 - Factor and Solve Trinomials w/ $a \neq 1$ (Day 1) NOTES		Unit 8 Lesson 2 - Factor and Solve Trinomials w/ $a \neq 1$ (Day 1) NOTES	
Name _____ Date _____		Name _____ Date _____	
VOCABULARY Trinomial - an algebraic expression consisting of 3 terms. Quadratic Form - $ax^2 + bx + c$ (where a, b, c are numbers)	Sign Rules $x^2 + 5x + 6 = (x + 2)(x + 3)$ $x^2 - 5x + 6 = (x - 2)(x - 3)$	What there will be a number in front of x^2 High rules off, apply what they need to put a sign out	There are many ways to factor when $a \neq 1$. This is just ONE of the ways.
1. $x^2 + 5x$		Steps & Check Step 1: SUDE - multiply $a \times c$ together, make a sign chart Step 2: FACTOR - make a trinomial of factors Step 3: CHECK - by what you did, if it isn't both factors Step 4: NO FRAGIONS - if you still have a fraction, put it in front of x^2	Trinomial Sign Chart Chart $x^2 + 5x + 6 = (x + 2)(x + 3)$ both factors are positive $x^2 + 5x - 6 = (x + 6)(x - 1)$ both factors are negative $x^2 - 5x + 6 = (x - 2)(x - 3)$ one factor is positive, one is negative $x^2 - 5x - 6 = (x - 6)(x + 1)$ one factor is positive, one is negative
2. $2x^2 + 7x$		1. $30x^2 + 50x$ 2.	1. $3x^2 + 5x + 2$ 2. $5x^2 - 7x + 6$
STEPS Step 1: Make a table of factors for Step 2: ADD factors, if the sum is correct, sign to make "c" Step 3: Write answer as 2 parentheses (,) Why can always check your answer by FOILing	Factor 1. $30x^2 + 50x$ 2.	Factor 1. $3x^2 + 5x + 2$ 2. $5x^2 - 7x + 6$	1. $3x^2 + 5x + 2$ 2. $5x^2 - 7x + 6$
Factor _____ 3. $x^2 + 5x - 30$	Factor _____ 4. $x^2 + 5x + 10$	Factor _____ 5. $x^2 + 5x + 10$	Factor _____ 6. $x^2 + 5x + 10$

Created by: Melanie Karcsak

Algebra 2 Hs Mathematics Unit Lesson Factoring

Lauren Gardner



Algebra 2 Hs Mathmatics Unit Lesson Factoring:

Mathematics Unit Planning in a PLC at Work®, High School Sarah Schuhl, Timothy D. Kanold, Bill Barnes, Darshan M. Jain, Matthew R. Larson, Brittany Mazingo, 2020-12-31 Champion student mastery of essential mathematics content in grades 9-12 Part of the Every Student Can Learn Mathematics series this guidebook provides high school teachers with a framework for collectively planning units of study in a professional learning community PLC The authors share tools and protocols for unwrapping standards generating unit calendars developing rigorous lessons and many other essential team actions Use this resource to discover practical insight into collaborative planning and inspiring detailed models of unit planning in action Understand how to collaboratively plan units for high school mathematics Study the seven unit planning elements and learn how to incorporate each in unit designs Review the role of the PLC at Work process in enhancing student learning and teacher collaboration Observe model units for Algebra 1 geometry and Algebra 2 Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in High School Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Transformations on the Coordinate Plane Unit Examples for Algebra 1 Geometry and Algebra 2 Chapter 3 Algebra 1 Unit Graphs of Quadratic Functions Chapter 4 Geometry Unit Transformations and Congruence Chapter 5 Algebra 2 Unit Graphs of Trigonometric Functions Epilogue Mathematics Team Operations Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning **Teaching and Learning High School**

Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book

you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

Answers in the Tool Box Clifford Adelman,1999 **Bowker's Complete Video Directory 2001** ,2001 **Common Core Mathematics in a PLC at Work TM, High School** Timothy D. Kanold,2012-05-09 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics for high school Discover what students should learn and how they should learn it Comprehensive research affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency **Research in Education** ,1971-12 *Resources in Education* ,2001-04 Algebra: Themes, Tools, Concepts -- Teachers' Edition Henri Picciotto,Anita Wah,1994 **United States Armed Forces Institute Catalog** United States Armed Forces Institute,1963 **DOD Pam** United States. Office of Armed Forces Information and Education,

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Table of Contents Algebra 2 Hs Mathmatics Unit Lesson Factoring

1. Understanding the eBook Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - The Rise of Digital Reading Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - 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 Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - Personalized Recommendations
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring User Reviews and Ratings
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring and Bestseller Lists
5. Accessing Algebra 2 Hs Mathmatics Unit Lesson Factoring Free and Paid eBooks
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring Public Domain eBooks
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring eBook Subscription Services
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring Budget-Friendly Options
6. Navigating Algebra 2 Hs Mathmatics Unit Lesson Factoring eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring Compatibility with Devices
 - Algebra 2 Hs Mathmatics Unit Lesson Factoring Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - Highlighting and Note-Taking Algebra 2 Hs Mathmatics Unit Lesson Factoring
 - Interactive Elements Algebra 2 Hs Mathmatics Unit Lesson Factoring
8. Staying Engaged with Algebra 2 Hs Mathmatics Unit Lesson Factoring

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Hs Mathematics Unit Lesson Factoring
9. Balancing eBooks and Physical Books Algebra 2 Hs Mathematics Unit Lesson Factoring
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Hs Mathematics Unit Lesson Factoring
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Hs Mathematics Unit Lesson Factoring
- Setting Reading Goals Algebra 2 Hs Mathematics Unit Lesson Factoring
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Hs Mathematics Unit Lesson Factoring
- Fact-Checking eBook Content of Algebra 2 Hs Mathematics Unit Lesson Factoring
 - 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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