

## 9.2 Factor Trinomials

## PRACTICE

Check the work! Multiply out the factored form to see if it matches the polynomial.

1. Is  $(x + 6)(x - 5)$  the factored form of  $x^2 - 3x - 30$ ?

$$x^2 - 5x + 6x - 30$$

$$x^2 + 1x - 30$$

NO

2. Is  $(x + 4)(x - 7)$  the factored form of  $x^2 - 3x - 28$ ?

$$x^2 - 7x + 4x - 28$$

$$x^2 - 3x - 28$$

YES

3. Is  $(x - 4)(x + 3)$  the factored form of  $x^2 - x - 12$ ?

$$x^2 + 3x - 4x - 12$$

$$x^2 - 1x - 12$$

YES

4. Is  $m(m - 3)$  the factored form of  $m^2 - 3$ ?

$$m^2 - 3m$$

NO

5. Is  $(d - 7)(d - 5)$  the factored form of  $d^2 - 12d + 35$ ?

$$d^2 - 5d - 7d + 35$$

$$d^2 - 12d + 35$$

NO

6. Is  $(t + 3)(t - 3)$  the factored form of  $t^2 - 9$ ?

$$t^2 - 3t + 3t - 9$$

$$t^2 - 9$$

YES

Factor the following if possible. Check your answer by multiplying!

7.  $x^2 - 2x - 48$

$$(x - 8)(x + 6)$$

~~$\begin{matrix} -2 & -48 \\ 6 & -48 \end{matrix}$~~

CHECK:

$$(x - 8)(x + 6)$$

$$x^2 + 6x - 8x - 48$$

$$x^2 - 2x - 48 \checkmark$$

8.  $x^2 + 14x + 24$

$$(x + 12)(x + 2)$$

~~$\begin{matrix} 14 & 24 \\ 12 & 24 \end{matrix}$~~

$$\text{CHECK: } (x + 12)(x + 2)$$

$$x^2 + 2x + 12x + 24$$

$$x^2 + 14x + 24 \checkmark$$

9.  $m^2 - 10m + 16$

$$(m - 8)(m - 2)$$

~~$\begin{matrix} -10 & 16 \\ -8 & 16 \end{matrix}$~~

$$\text{CHECK: } (m - 8)(m - 2)$$

$$m^2 - 2m - 8m + 16$$

$$m^2 - 10m + 16 \checkmark$$

10.  $p^2 - 4p - 5$

$$(p - 5)(p + 1)$$

~~$\begin{matrix} -4 & -5 \\ -5 & -5 \end{matrix}$~~

$$\text{CHECK: } (p - 5)(p + 1)$$

$$p^2 + p - 5p - 5$$

$$p^2 - 4p - 5 \checkmark$$

11.  $x^2 - 64$

$$(x + 8)(x - 8)$$

Difference of Squares!

$$\text{CHECK: } (x + 8)(x - 8)$$

$$x^2 - 8x + 8x - 64$$

$$x^2 - 64 \checkmark$$

12.  $h^2 + 3h - 54$

$$(h + 9)(h - 6)$$

~~$\begin{matrix} 3 & -54 \\ 9 & -54 \end{matrix}$~~

$$\text{CHECK: } (h + 9)(h - 6)$$

$$h^2 - 6h + 9h - 54$$

$$h^2 + 3h - 54 \checkmark$$

13.  $x^2 - 8x$

Greatest

14.  $x^2 + 2x + 12$

15.  $x^2 - 49$

Difference of

# Factoring Unit 05 Lesson 01 Answers

**H Kauffman**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Factoring Unit 05 Lesson 01 Answers:**

*The Mathematics Lesson-Planning Handbook, Grades 3-5* Ruth Harbin Miles, Beth McCord Kobett, Lois A. Williams, 2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education YOU are the architect in the mathematics classroom When it comes to mathematics lessons do you sometimes feel overly beholden to the required texts from which you teach Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do How often do you find yourself in the last minute online scramble for a great task activity that will capture your students interest and align to your state standards In *The Mathematics Lesson Planning Handbook Grades 3 5 Your Blueprint for Building Cohesive Lessons* you ll learn the streamlined decision making processes that will help you plan the focused research based standards aligned lessons your students need This daily reference offers practical guidance for when and how to pull together mathematics routines resources and effective teaching techniques into a coherent and manageable set of lesson plans This resource will Lead teachers through a process of lesson planning based on various learning objectives Set the stage for lesson planning using relatable vignettes Offer sample lesson plans for Grades 3 5 Create opportunities to reflect on each component of a mathematics lesson Suggest next steps for building a unit from the lessons Provide teachers the space and tools to create their own lesson plans going forward Based on years of classroom experience from seasoned mathematics educators this book brings together the just in time resources and practical advice you need to make lesson planning simple practical and doable From laying a solid foundation to choosing the right materials you ll feel confident structuring lessons that lead to high student achievement

Factoring Tony G. Williams, 2011-09-01 This packet follows the traditional algebra curriculum while challenging students minds with fun puzzles that develop logic reasoning skills concentration and confidence Each Sudoku puzzle is like a mini lesson with background discussion strategy and demonstration for solving each problem After completing the algebra exercises students are given enough data that will allow them to reason their way through the remaining cells of the Sudoku puzzle that follows Each activity is presented on a ready to use reproducible master that can be easily photocopied or reproduced as a transparency for full class instruction and discussion Algebraic Sudoku is a must have resource for all students enrolled in or preparing to take algebra or for anyone who wants to keep their algebraic skills sharp

Elementary Algebra A. A. Frempong, 2012-10-06 Elementary Algebra covers Signed Number and Real Number Operations Order of Operations and Evaluation of Expressions Exponential Notation and Rules of Exponents Polynomial addition subtraction multiplication and division Solving First Degree Equations Word Problems

Factoring Polynomials Solving quadratic equations by factoring Graphs Slopes Intercepts and Equations of Straight Lines Solving Systems of Linear Equations and Word Problems Radicals square roots addition Pythagorean Theorem and Applications Areas and Perimeters Algebraic Fractions reduction multiplication division Solving Linear inequalities Extra topics include Quadratic Equations Functions Relations Functional Notation Sketching Parabola Solving Fractional or Rational Equations Solving Radical Equations Basic Review for Geometry *Final Exam Review: Elementary Algebra* A. A. Frempong, Elementary Algebra covers Signed Number and Real Number Operations Order of Operations and Evaluation of Expressions Exponential Notation and Rules of Exponents Polynomial addition subtraction multiplication and division Solving First Degree Equations Word Problems Ratio and Proportion Factoring Polynomials Solving quadratic equations by factoring Graphs Slopes Intercepts and Equations of Straight Lines Solving Systems of Linear Equations and Word Problems Radicals square roots addition Pythagorean Theorem and Applications Areas and Perimeters Algebraic Fractions reduction multiplication division Solving Linear inequalities Differentiating Instruction in Algebra 1 Kelli Jurek, 2021-09-03 Teachers often have too little time to prepare differentiated lessons to meet the needs of all students Differentiating Instruction in Algebra 1 provides ready to use resources for Algebra 1 students The book is divided into four units introduction to functions and relationships systems of linear equations exponent rules and exponential functions and quadratic functions Each unit includes big ideas essential questions the Common Core State Standards addressed within that section pretests learning targets varied activities and answer keys The activities offer choices to students or three levels of practice based on student skill level Differentiating Instruction in Algebra 1 is just the resource math teachers need to provide exciting and challenging algebra activities for all students Grades 7-10 Success with Algebra Lucrecia A. Hutton, Elaine V. Alton, Joseph E. Kuczkowski, 1986 **Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5** University of Chicago. School Mathematics Project, 2007 The Teacher's Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support **Everyday Mathematics: Teacher's lesson guide v. 1** [v.3] **Teacher's lesson guide v. 2**, 2004 **Graphing Calculator Strategies: Algebra** Pamela H. Dase, 2006-12-01 Integrate TI Graphing Calculator technology into your mathematics instruction with these resource books Lesson plans are easy to follow and each lesson explains the concepts demonstrates how to use the calculator and applies the concept Differentiate instruction with Extension Ideas and strategies that simplify the lessons for students needing extra support Teacher Resource CD includes a Using the Calculator section to help students visualize the concepts great for English language learners Practice pages help prepare students for testing situations that include the use of graphing calculators Pedagogy of Mathematics Mr. Rohit Manglik, 2023-03-23 In this book we will study about child centered ways to teach mathematical thinking concepts and problem solving

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