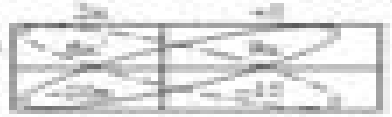
Factoring Polynomials — Part I for Algebra 1 — Spring 2015

1. There is a key pattern involved when you use the generic rectangle to multiply two binomials. Please answer the questions for each problem below:

a) Consider: $(2x+3)(3x-5)$

The areas have been calculated for you:



b) Consider: $(3x+2)(3x-1)$

i. Fill in all missing areas:

ii. "What is the total area of the entire rectangle" (Add all four areas together and combine like terms):

iii. "What is the product of the two circled terms?"

iv. "What is the product of the two circled terms?"

v. "What do you notice about these two products?

c) Consider: $(4x-3)(2x-5)$

i. Fill in all missing areas:

ii. "What is the total area of the entire rectangle" (Add all four areas together and combine like terms):

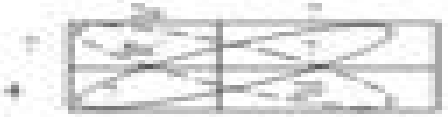
iii. **"What is the [SUM] of the two circled terms?"**

iv. "What is "b" term in your answer to part (ii)?"

v. "What do you notice about these two questions?"

2. Using the patterns established above, see if you can complete each of the following generic rectangles using the given clues:

a) Total Area = $6x^2 + 23x + 20$
Area as a Product = $(2x+5)(3x+4)$
Product of the two circled terms = $120x^2$



b) Total Area = $6x^2 + 7x - 3$
Area as a Product = $(\quad)(2x-\quad)$
Product of the two circled terms = ?

c) Total Area = $12x^2 - 5x - 1$
Area as a Product = $(\quad)(2x-1\quad)$
Product of the two circled terms = $-12x^2$

d) Total Area = $8x^2 - 2x - 3$
Area as a Product = $(\quad)(-2x\quad)+(\quad)$
Product of the two circled terms = $-12x^2$

e) Total Area = $10x^2 - 7x - 12$
Area as a Product = $(\quad)(\quad 2x\quad)+(\quad)$
Product of the two circled terms = ?

f) Total Area = $6x^2 + 13x + 5$
Area as a Product = $(\quad)(\quad 2x\quad)+(\quad)$
Product of the two circled terms = ?

MORE PROBLEMS ON BACK →

Factoring Polynomials Part 1 Answer Key

Barbara R. Sandall, Ed.D.,Melfried Olson,Travis Olson

Factoring Polynomials Part 1 Answer Key:

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McKeague,2014-05-10 Elementary Algebra Third Edition focuses on the basic principles operations and approaches involved in elementary algebra The book first ponders on the basics linear equations and inequalities and graphing and linear systems Discussions focus on the elimination method solving linear systems by graphing word problems addition property of equality solving linear equations linear inequalities addition and subtraction of real numbers and properties of real numbers The text then takes a look at exponents and polynomials factoring and rational expressions Topics include reducing rational expressions to lowest terms addition and subtraction of rational expressions factoring integers quadratic equations greatest common factor and factoring by grouping multiplication with exponents and addition and subtraction of polynomials The manuscript examines more quadratic equations and roots and radicals including complex solutions to quadratic equations completing the square graphing parabolas properties of radicals and multiplication and division of radicals The publication is a dependable reference for students and researchers interested in elementary algebra **Numerical Methods for Roots of Polynomials - Part II** J.M. McNamee,V.Y. Pan,2013-07-19 The zeros of a polynomial can be readily recovered from its linear factors The linear factors can be approximated by first splitting a polynomial numerically into the product of its two nonconstant factors and then recursively splitting every computed nonlinear factor in similar fashion For both the worst and average case inputs the resulting algorithms solve the polynomial factorization and root finding problems within fixed sufficiently small error bounds by using nearly optimal arithmetic and Boolean time that is using nearly optimal numbers of arithmetic and bitwise operations in the case of a polynomial with integer coefficients and simple roots we can immediately extend factorization to root isolation that is to computing disjoint covering discs one for every root on the complex plane The presented algorithms compute highly accurate approximations to all roots nearly as fast as one reads the input coefficients Furthermore our algorithms allow processor efficient parallel acceleration which enables root finding factorization and root isolation in polylogarithmic arithmetic and Boolean time The chapter thoroughly covers the design and analysis of these algorithms including auxiliary techniques of independent interest At the end we compare the presented polynomial root finders with alternative ones in particular with the popular algorithms adopted by users based on supporting empirical information We also comment on some promising directions to further progress Algebra and Trigonometry Cynthia Y. Young,2021-08-31 Cynthia Young s Algebra and Trigonometry Fifth Edition allows students to take the guesswork out of studying by providing them with an easy to read and clear roadmap what to do how to do it and whether they did it right With this revision Cynthia Young revised the text with a focus on the most difficult topics in Trigonometry with a goal to bring more clarity to those learning objectives Algebra and Trigonometry Fifth Edition is written in a voice that speaks to students and mirrors how instructors communicate in lecture Young s hallmark pedagogy enables students to become independent successful learners Key features like Parallel Words and Math and Catch the Mistake exercises are taken directly from classroom experience and keeps the learning fresh and motivating *na* , *Arithmetic, algebra, logarithms,*

geometry, and trigonometry, elementary mechanics, hydraulics, pneumatics, elementary graphical statics International Correspondence Schools,1899 The Elements of Mechanical Engineering International Correspondence Schools,1900 *Regents Exams and Answers: Algebra II Revised Edition* Barron's Educational Series,Gary Michael Rubinstein,2021-01-05 Barron s Regents Exams and Answers Algebra II provides essential review for students taking the Algebra II exam including actual exams administered for the course and thorough answer explanations and comprehensive review of all topics This edition features Six actual administered Regents exams so students have the practice they need to prepare for the test Comprehensive review questions grouped by topic to help refresh skills learned in class Detailed explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies All algebra II topics are covered including Polynomial Equations Rational Equations Exponential and Logarithmic Equations Systems of Equations with Three Variables Functions Sequences and Probability Algorithms and Theory of Computation Handbook Mikhail J. Atallah,1998-11-23 Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip vision and image processing data compression and cryptography The book also presents some advanced topics in combinatorial optimization and parallel distributed computing applications areas where algorithms and data structuring techniques are of special importance graph drawing robot algorithms VLSI layout vision and image processing algorithms scheduling electronic cash data compression dynamic graph algorithms on line algorithms multidimensional data structures cryptography advanced topics in combinatorial optimization and parallel distributed computing **Arithmetic. Algebra. Logarithms. Geometry and trigonometry. Elementary mechanics. Hydromechanics. Pneumatics. Strength of materials** International Correspondence Schools,1897 **The elements of civil engineering** Scranton International correspondence schools (Pa),1899 *The Elements of Mechanical and Electrical Engineering* International Correspondence Schools,1898 *The Elements of Mechanical and Electrical Engineering: Arithmetic. Algebra. Logarithms. Geometry and trigonometry. Elementary mechanics. Hydromechanics. Pneumatics. Heat. With practical questions and examples* International Correspondence Schools,1899 *Trigonometry* Cynthia Y. Young,2011-11-15 **Numbers Symbolized** David Martin Sensenig,1888 Catalog of Nonresident Training Courses United States. Naval Education and Training Command,1996

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