

4.4

Factoring Polynomials

For use with Exploration 4.4

P. 91 ☺

Essential Question How can you factor a polynomial?

1 EXPLORATION: Factoring Polynomials

Work with a partner. Match each polynomial equation with the graph of its related polynomial function. Use the x -intercepts of the graph to write each polynomial in factored form. Explain your reasoning.

a. $x^2 + 5x + 4 = 0$ **C**
 $(x+4)(x+1)$

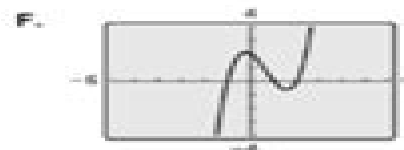
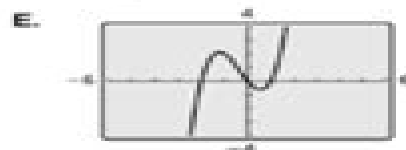
b. $x^3 - 2x^2 - x + 2 = 0$ **F**
 $(x+1)(x-1)(x-2)$

c. $x^3 + x^2 - 2x = 0$
 $x(x-2)(x+1)$

d. $x^3 - x = 0$
 $x(x+1)(x-1)$

e. $x^4 - 5x^2 + 4 = 0$
 $(x+1)(x-1)(x+2)(x-2)$

f. $x^4 - 2x^3 - x^2 + 2x = 0$
 $x(x+1)(x-1)(x-2)$



Factoring Polynomial Punchline Algebra B Answers

Teresa Turner



Factoring Polynomial Punchline Algebra B Answers:

Algebra Examples Polynomial Factorizations Seong Kim, 2011-05-21 Students need the best teacher so they need examples because examples are the best teacher All the examples here are fully worked out and detailed in real terms so that students can see and learn how some basic tools in math are made how they work and how to work with them What tools though Among those math tools we have numbers variables expressions as equations ratios and rates lines angles triangles and circles formulas identities theorems laws etc And this book is about some algebra and you learn them through examples of course Some examples are repeated with variations of course strategically so that you can learn those math tools and increase their caliber efficiently as well as properly This book is however nothing but a bunch of examples until you get it powered How to get it powered and make it run and work for you Just read it and then do the examples in your writing And in particular this book is about polynomial factorizations and explains how to manipulate polynomials that is changing converting or modifying and doing arithmetic with polynomials Why polynomial factorizations though That s because algebra matters And it does very much so And in particular what matters a lot in algebra is factorizing factoring polynomials that is polynomial factorizations Doing math we get to solve equations and the equations are often made of polynomials And doing such we get to do calculations to expression with not just numbers but variables too And In fact no matter what we do in math we can hardly avoid doing such algebra So either in high school math or in college math we can hardly stay away from such algebra Without strong foundation on the algebra we can t do much in math On the other hand with strong foundation on the algebra we can do a lot and of course can do problems very well too And polynomial factorization is the place where you can grow much of your power in algebra And as everything else in math such a factorization is a tool in math and is a great power tool so it will give you a lot of power if you power it by knowing it and can use it properly So this book explains what those tools are how they work and what to do with them together with how to do it So you are going to learn what factorizations are about and how to change alter or modify math expressions as polynomials And you will get them through examples detailed so that your math can run not only nicely but fast enough too More information on the books can be found at <http://www.runmath.com/BooksPrinted.htm> *A Comparison of Two Methods of Factoring Polynomials in Algebra I* Lawrence L. Erl, 1971 [Factoring Polynomials Exercise Workbook](#) L. Castelluzzo, 2019-11-03 This book provides the reader with an opportunity to practice factoring binomials and trinomials The solutions are provided for each question with all steps so that the student will be able to pinpoint exactly where any errors may have been made This book does not teach the theory but instead it is intended to allow students to practice what they have learned in their mathematics course **Factoring Polynomials** Masroor Mohajerani, 2021-01-26 This book is designed for high school students In the present book all types of polynomial factoring including trinomial factoring difference of squares difference of cubes etc from basic to advanced are provided with detailed solutions There are also extra practice questions at the end of each section Learn and practice

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