

Let's do another example. In this example I will show my steps where I will factor the given quadratic equation.

Problem: Solve $3x^2 - 14x - 5 = 0$ using the factoring method.

Solution:

$$3x^2 - 14x - 5 = 0$$

$$3x^2 - 15x + 1x - 5 = 0$$

Now from first two terms pull out the common factor and similarly from last two terms as shown below;

$$3x(x - 5) + 1(x - 5) = 0$$

Now $(x - 5)$ is the common factor, pull it out as shown below;

$$(x - 5)(3x + 1) = 0$$

Now we have done factoring the equation, next step is to equate both factors to zero and solve both for "x" as shown below;

$$x - 5 = 0$$

Or

$$3x + 1 = 0$$

$$x = 5$$

Or

$$x = -\frac{1}{3}$$

I can write my answer as $x = 5, -\frac{1}{3}$

I will multiply the coefficient of " x^2 " (which is "3" to the constant term which is "-5", $(3)(-5) = -15$.

Now I will look at coefficient of "x" which is "-14" and find two numbers whose sum is "-14" and multiplication is "-15"

Sum of "-15" and "1" is "-14" and their multiplication is "-15".

Then I will split the centre "-14x" into "-15x" "+1x" as shown in the second step.

Exercise: Solve the following quadratic equations using factors.

1. $x^2 - 9x + 14 = 0$

2. $2x^2 + 7x - 15 = 0$

Instructional Fair Solving Equations Using Factoring

Puja Mehta



Instructional Fair Solving Equations Using Factoring:

This book delves into Instructional Fair Solving Equations Using Factoring. Instructional Fair Solving Equations Using Factoring is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Instructional Fair Solving Equations Using Factoring, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Instructional Fair Solving Equations Using Factoring
 - Chapter 2: Essential Elements of Instructional Fair Solving Equations Using Factoring
 - Chapter 3: Instructional Fair Solving Equations Using Factoring in Everyday Life
 - Chapter 4: Instructional Fair Solving Equations Using Factoring in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Instructional Fair Solving Equations Using Factoring. The first chapter will explore what Instructional Fair Solving Equations Using Factoring is, why Instructional Fair Solving Equations Using Factoring is vital, and how to effectively learn about Instructional Fair Solving Equations Using Factoring.
 3. In chapter 2, this book will delve into the foundational concepts of Instructional Fair Solving Equations Using Factoring. This chapter will elucidate the essential principles that must be understood to grasp Instructional Fair Solving Equations Using Factoring in its entirety.
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 6. In chapter 5, the author will draw a conclusion about Instructional Fair Solving Equations Using Factoring. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Instructional Fair Solving Equations Using Factoring.

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