

Unit 1.1: Factoring

I. FACTORIZING QUADRATIC EQUATIONS

- Standard Form: $ax^2 + bx + c = 0$
- Point-Slope Form: $y - y_1 = m(x - x_1)$
- Slope-Intercept Form: $y = mx + b$
- All Factoring Methods
 - 1) Factor out the GCF of all terms
 - 2) Try to factor a binomial as
 - the difference of 2 squares: $(a^2 - b^2) = (a - b)(a + b)$
 - 3) Try to factor a trinomial
 - as a perfect square trinomial: $(a - b)^2 = a^2 - 2ab + b^2$ OR $(a + b)^2 = a^2 + 2ab + b^2$
 - using the trial method or AC method (multiply a & c values then find suitable factors)
 - 4) Try to factor a polynomial with more than 3 terms by grouping
 - 5) When faced with a term like $(x+y)$ as the GCF, replace the term with another variable like "u"
 - Afterwards, plug the term back in
 - 6) After each factorization, examine the new factors to see whether they can be factored

II. SOLVING QUADRATIC EQUATIONS

- Zero Product Principle: If A and B are algebraic expressions such that $AB = 0$, then $A = 0$ or $B = 0$
- Square Root Procedure: If $x^2 = c$, then $x = \sqrt{c}$ or $x = -\sqrt{c}$, which can be written as $x = \pm \sqrt{c}$
- Completing the Square
 - 1) Write with only variable terms on one side
 - 2) Complete the square
 - Add $(\frac{b}{2})^2$ on both sides
 - 3) Write as a square of a binomial
 - 4) Take square root of both sides
 - If the leading coefficient is not equal to 1, remember to factor it out first
 - 5) Solve and simplify
- Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
 - Works with all equations

III. PARABOLAS (KEY FEATURES + GRAPHING)

- Quadratic equations graphed form parabolas (a U-shaped curve)

Algebra 1 Factoring Study Guide

DP Hallahan



Algebra 1 Factoring Study Guide:

Algebra 1 Factoring Study Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algebra 1 Factoring Study Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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