

POLYNOMIALS & FACTORING

A **POLYNOMIAL** is a mathematical expression that consists of variables raised to whole number powers and their coefficients, combined using addition, subtraction, and multiplication.



**WITH
COMPLETED
EXAMPLES
AND STEPS
TO KEEP IN
THEIR
NOTES FOR
THE FUTURE!**



POLYNOMIAL OPERATIONS

ADDING

Combine like terms

$$(x^2 + 4x - 4) + (2x^2 - 3x + 1)$$

$$3x^2 + x - 3$$

SUBTRACTING

Distribute the negative and combine like terms

$$(x^2 + 4x - 4) - (2x^2 - 3x + 1)$$

$$x^2 + 4x - 4 - 2x^2 + 3x - 1$$

$$-x^2 + 7x - 5$$

MULTIPLYING

FOIL, or Box Method

$$(x - 3)(2x + 5)$$

$$= 2x^2 - 6x + 5x - 15$$

$$2x^2 - x - 15$$

DIVIDING MONOMIALS

Subtract exponents and divide coefficients

$$\frac{4x^3 + 2x^2 + 4x}{2x} = 2x^2 + x^2 + 2$$

FACTORING POLYNOMIALS

Greatest Common Factor	Use when all terms have a common factor between them	Divide all terms by the GREATEST common factor	Ex: $6x^2 - 3x$ $3x(2x - 1)$ $3x$ is the GCF
Binomials when $a = 1$ $ax^2 + bx + c$	Use this when you have a binomial (3 terms) and the coefficient in front of x^2 is 1	Determine 2 factors of c that add to b	Ex: $x^2 + 5x + 6$ $(x + 1)(x + 6)$
Binomials when $a \neq 1$ $ax^2 + bx + c$	Use this when you have a binomial & the coefficient in front of x^2 is not 1	THE AC METHOD: Multiply A by C & split middle term	Ex: $2x^2 + 3x + 1$ $2x^2 + 2x + x + 1$ $2x(x + 1) + 1(x + 1)$ $(2x + 1)(x + 1)$
Difference of Two Squares	Use this when 2 perfect squares are being subtracted from each	Take the square root of each term	Ex: $x^2 - 100$ $(x - 10)(x + 10)$ One +, one -

AND COLOR A NOTES PAGE

Factoring Polynomials Coloring Sheet

Xiaolong Qi

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 Polynomials Coloring Sheet:

Factoring Polynomials Coloring Sheet Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Factoring Polynomials Coloring Sheet**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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