

Determine whether each of the following expressions is a polynomial:

a.  $x^2 - 3x - 1$

yes

b.  $x^2 + 2x - 1$

no (all exponents must be whole #s)

Classify each of the following polynomials by number of terms:

a.  $x^2 - 3x - 1$

trinomial

b.  $2x - x^2$

binomial

notes: one term: monomial

two terms: binomial

three terms: trinomial

Classify each of the following polynomials by degree:

a.  $x^2 - 3x - 1$

b.  $x^2 - 2x$

degree = 0: constant

= 1: linear

= 2: quadratic

= 3: cubic

= 4: quartic

= 5: quintic

Factor completely

a.  $x^2 + 27$

b.  $x^2 - 8$

c.  $x^2 - 36$

d.  $x^2 + 36$

a)  $(x+3)(x^2 - 3x + 9)$

4c)  $(x+6)(x-6)$

b)  $(x-2)(x^2 + 2x + 4)$

4d)  $(x+6i)(x-6i)$

Use the binomial theorem to expand

a.  $(2x+1)^3$

b.  $(x-3)^5$

c.  $(x+4)^4$

d.  $(x+2y)^5$

5a)  $1(2x)^3 + 3(2x)^2 + 3(2x) + 1$   
 $= 8x^3 + 12x^2 + 6x + 1$

5b)  $1x^5 - 5x^4(3) + 10x^3(3)^2 - 10x^2(3)^3 + 5x(3)^4 - 1(3)^5$   
 $= x^5 - 15x^4 + 90x^3 - 270x^2 + 405x - 243$

5c)  $1x^4 + 4x^3(4) + 6x^2(4)^2 + 4x(4)^3 + 1(4)^4$   
 $= x^4 + 16x^3 + 96x^2 + 256x + 256$

Divide using synthetic division or long division

a.  $(x^2 + 2) \div (x + 1)$

$$\begin{array}{r|rrrr} -1 & 1 & 0 & 0 & 2 \\ & & -1 & 1 & -1 \\ \hline & 1 & -1 & 1 & 1 \end{array}$$

$$x^2 - x + 1 + \frac{1}{x+1}$$

c.  $(8x^2 + 5x^2 - 12x + 10) \div (x^2 - 3)$

b.  $(5x^4 + 2x^3 - 9x + 12) \div (x^2 - 3x + 4)$

$$\begin{array}{r} 5x^2 + 17x + 31 \\ x^2 - 3x + 4 \overline{) 5x^4 + 2x^3 + 0x^2 - 9x + 12} \\ \underline{-5x^4 + 15x^3 + 20x^2} \phantom{+ 12} \\ 17x^3 - 20x^2 - 9x \phantom{+ 12} \\ \underline{-17x^3 + 51x^2 + 68x} \phantom{+ 12} \\ 31x^2 - 77x + 12 \\ \underline{-31x^2 + 93x + 124} \\ 16x - 112 \end{array}$$

$$\begin{array}{cccccccc} & & & 1 & & & & \\ & & & & 1 & & & \\ & & 1 & & 2 & & 1 & \\ & 1 & & 3 & & 3 & & 1 \\ & & 1 & & 4 & & 6 & & 4 & & 1 \\ & & & 1 & & 5 & & 10 & & 10 & & 5 & & 1 \end{array}$$

# Polynomial And Factoring Quiz Gina Wilson

**Mike Csencsits**



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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      *Polynomials, Piece by Piece: Divide and Factor Polynomials: Simplify and Solve*

Mike Csencsits,2025-06-16 Master Polynomial Division and Factoring Piece by Piece Divide and Factor Polynomials Simplify and Solve is the third book in the highly praised Polynomials Piece by Piece series a self study workbook series designed for students homeschoolers and independent learners who want to understand algebra not just memorize it This book breaks down polynomial division and factoring into manageable steps guiding learners through each skill with clarity structure and confidence building practice Whether you re new to these concepts or need a deeper review this book gives you the tools to succeed without shortcuts gimmicks or overwhelming explanations What You ll Learn How to divide polynomials using vertical format and organize your work What to do when polynomial division leaves a remainder How to factor trinomials using grouping even when the leading coefficient is greater than 1 How to factor higher degree polynomials using division as a strategic first step How to solve polynomial equations by factoring completely How to avoid and correct common mistakes with step by step error analysis Built for Real Understanding Structured supportive lessons in plain language Clear examples using visual organization and vertical work Try it yourself sections for immediate practice Checkpoints and reflection prompts to track your confidence No special case tricks just real math piece by piece Bonus addendum Learn how to use the quadratic formula as a powerful solving tool Whether you re working through algebra for the first time or returning to build confidence this book will help you move forward step by step skill by skill Book 3 of 3 in the Polynomials Piece by Piece series Learn it Practice it Master it      *Factoring Polynomials* Masroor Mohajerani,2021-01-26 This book is designed for high

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