

MATH 1113

Name _____

Factoring Review Sheet

- Factor out GCF (Greatest Common Factor), if any. Make sure to check for the largest number and/or variable that is common to all terms.

$$\begin{array}{r} \text{Factor out } 3x^2 \\ 3x^2 + 6x^2 + 9x^2 + 12x^2 \\ \hline 3x^2(1 + 2 + 3 + 4) \\ 3x^2(10) \end{array}$$
- How many terms are there?
 - For two terms, factor using:
 - Difference of squares: $a^2 - b^2 = (a + b)(a - b)$
 - Difference of cubes: $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
 - Sum of cubes: $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$
 - For three terms, factor using:
 - Perfect square trinomials: $a^2 + 2ab + b^2 = (a + b)^2$ OR $a^2 - 2ab + b^2 = (a - b)^2$
 - Trinomials in form $x^2 + bx + c = (x + r)(x + s)$: To factor, find 2 numbers that multiply to get c and add to get b .
 - Trinomials in form $ax^2 + bx + c = (rx + s)(tx + u)$: Find 2 numbers that multiply to get $a \cdot c$ and add to get b , then factor using grouping or trial & error.
 - For four terms, factor using grouping (Factor out GCF three times).
- Repeat steps as necessary to factor completely.

Greatest Common Factor

$$3x^2 + 6x^2 + 9x^2 + 12x^2 = 3x^2(1 + 2 + 3 + 4) = 3x^2(10)$$

Grouping

$$3x^2 + 6x^2 + 9x^2 + 12x^2 = 3x^2(1 + 2 + 3 + 4)$$

Grouping

$$x^2 + 5x + 6 = (x + 2)(x + 3)$$

Trinomial in form $x^2 + bx + c$ (both numbers positive)

$$x^2 + 5x + 6 = (x + 2)(x + 3)$$

Trinomial in form $x^2 + bx + c$ (larger number positive)

$$x^2 - 5x + 6 = (x - 2)(x - 3)$$

Trinomial in form $x^2 + bx + c$ (larger number negative)

$$x^2 + 5x - 6 = (x + 6)(x - 1)$$

Trinomial in form $ax^2 + bx + c$ (both numbers negative)

$$4x^2 - 12x + 9 = (2x - 3)^2$$

Difference of Squares

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

Algebra Eps 14

Camilla Rothe



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Algebraic Equations Edgar Dehn, 2004-01-01 This text focuses on the basics of algebraic theory giving detailed explanations of integral functions permutations and groups and Lagrange and Galois theory Many numerical examples with complete solutions 1930 edition *Applications of Algebraic Geometry to Coding Theory, Physics and Computation* Ciro Ciliberto, Friedrich Hirzebruch, Rick Miranda, Mina Teicher, 2001-08-31 Proceedings of the NATO Advanced Research Workshop held in Eilat Israel from 25th February to 1st March 2001 **Model Emergent Dynamics in Complex Systems** A. J. Roberts, 2014-12-18 Arising out of the growing interest in and applications of modern dynamical systems theory this book explores how to derive relatively simple dynamical equations that model complex physical interactions The author's objectives are to use sound theory to explore algebraic techniques develop interesting applications and discover general modeling principles Model Emergent Dynamics in Complex Systems unifies into one powerful and coherent approach the many varied extant methods for mathematical model reduction and approximation Using mathematical models at various levels of resolution and complexity the book establishes the relationships between such multiscale models and clarifying difficulties and apparent paradoxes and addresses model reduction for systems resolves initial conditions and illuminates control and uncertainty The basis for the author's methodology is the theory and the geometric picture of both coordinate transforms and invariant manifolds in dynamical systems in particular center and slow manifolds are heavily used The wonderful aspect of this approach is the range of geometric interpretations of the modeling process that it produces simple geometric pictures inspire sound methods of analysis and construction Further pictures drawn of state spaces also provide a route to better assess a model's limitations and strengths Geometry and algebra form a powerful partnership and coordinate transforms and manifolds provide a powerfully enhanced and unified view of a swathe of other complex system modeling methodologies such as averaging homogenization multiple scales singular perturbations two timing and WKB theory Audience Advanced undergraduate and graduate students engineers scientists and other researchers who need to understand systems and modeling at different levels of resolution and complexity will all find this book useful

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Exercises in algebra for use in the middle division of fifth form, by E.P. Rouse and A. Cockshott [With] Key Edward Peake Rouse, 1887 **Algebraic Number Theory** Robert L. Long, 1977 **SIAM Journal on Algebraic and Discrete Methods** Society for Industrial and Applied Mathematics, 1987 *Solvable Models in Algebraic Statistical Mechanics* D. A. Dubin, 1974 **Algebraic Geometry, a New Treatise on Analytical Conic Sections: The straight line and the circle** William Meath Baker, 1908
Mathematical Reviews, 2005 *Kyungpook Mathematical Journal*, 2001 *Algebraic Geometry* William Meath Baker, 1911 The Basic Math Irm Cd V2. 5 Why Interactive Staff, 2001-08 **Algebra and Algebraic Thinking in School Mathematics** Carole E. Greenes, 2008 Examines the status of algebra in our schools and the changes that the curriculum has undergone over the past several years Includes successful classroom practises for developing algebraic reasoning abilities and improving overall understanding **Society of Petroleum Engineers Journal** Society of Petroleum Engineers of AIME., 1975 **Canadian Journal of Mathematics**, 2003 Proceedings of the International Symposium on Symbolic and Algebraic Computation, 1993 **Baer *-rings** Sterling K. Berberian, 1972 *Commentarii Mathematici Universitatis Sancti Pauli*, 2004

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