

Mathematics 8

COMMON MONOMIAL FACTORING (EASY)

(ANSWER KEY)

- L. Factor the following polynomials using the common monomial factoring technique.

Examples:

$$11x^2 - 22x^2 = ?$$

Factors of $11x^2$: $2 \cdot 2 \cdot 5 \cdot x \cdot x \cdot x$

Factors of $22x^2$: $2 \cdot 2 \cdot 5 \cdot x \cdot x$

GCF of the binomial: $2 \cdot 2 \cdot x \cdot x = 4x^2$

Factored form: $11x^2 - 22x^2 = 4x^2(3x - 5)$

1. $8a + 10a^2 = 2a(4 + 5a)$
2. $4b^2 - 16 = 4b(2b - 4)$
3. $16c^3 + 4c^2 = 4c^2(4 + c)$
4. $9d^2 - 15d^3 = 3d^2(3d^2 - 5)$
5. $27e^2 + 63e^3 = 9e^2(3 + 7e)$
6. $25f^2 - 10 = 5(5f^2 - 2)$
7. $4g^2 + 8g = 4g(g + 2)$
8. $16h + 8^2 = 8(2h + 8^2)$
9. $12i^2 + 36i^3 = 12i^2(3 + 3i)$
10. $4j^2 + 10k = 2(2j^2 + 5k)$

Monomials And Factors Skill Practice

Harold Torrance



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Math Tutor: Mastering Algebra Skills, Grades 4 - 12 Harold Torrance, 2004-01-02 Written for students who are struggling in math Math Tutor Mastering Algebra Skills is an excellent tool for providing additional concept reinforcement Each lesson in this book contains an Absorb section to instruct and simplify math concepts as well as an Apply section to help students grasp concepts on their own Topics covered include fractions order of operations expressions and equations with variables solving linear equations polynomials and more It is great for use in the classroom or at home and fully supports NCTM standards Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards Since 1977 Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources **Algebra 1 Chapter 9**

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Junior High School Mathematical Essentials J. Andrew Drushel, John William Withers, 1926 Math Tutor: Algebra, Ages 11 - 14 Harold Torrance, 2011-03-01 The Math Tutor series provides step by step instruction in the most common math concepts needed by students of all ages Included are practice exercises reviews and vocabulary definitions Math Tutor Algebra covers factoring exponents variables linear equations and polynomials Correlated to state national and Canadian provincial standards 80 pages

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