# **Lesson 6 5 Multiplying Polynomials**

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# Lesson 6 5 Multiplying Polynomials

#### **Practice B x-x6-x6-5 Multiplying Polynomials**

h 5 C 6 F 7 C Reading Strategies 1 4 2 They have the same exponent on the same variable 3 There are no like terms 4  $-6x5 + 124 - 3x3518x3 + 57x2 + 30x67x2 - 19x672x5 - 10x4 + 8x3 - 22x2 - 34x + 8 A6 CS10_A1_MECR710549_CH06_AKindd 6 3031011 10:54:17 PM$ 

### **LESSON Practice A x-x6-x6-5 Multiplying Polynomials**

Multiplying Polynomials Multiply 1 (4x) (5x) 2 6-35 LESSON x-x6-x6-5 CS10\_A1\_MECR710549\_C06L05aindd 35 3/29/11 8:34:06 PM 5 6z3 + 4z2 + 5 6 12g2 + 4g - 1 7 7x3 + 6x 8 8k + 1 9 3s3 + 5s + 20 10 9a4 + 8a2 11 9 b2 + - 9 12 4 c3 6 ...

#### LESSON Dividing Polynomials 6-5 Practice and Problem ...

LESSON 6-5 Practice and Problem Solving: A/B 1 2x + 2 21x2 + 3 -32x + 4 2 14 3 3 x x - + 5 32x - 6 69 519 3 x x - + + 5 92 1 x x + + - 8 339 647 7 x x - + + + 9 (3) 11P = 10 (2) 36P - = - 11 Yes 12 No 13 2 10t + Practice and Problem Solving: C 1 xx2 + 512 - 2 2 131 15 45 3 xx x + + + - 3 32 9 49 5 ...

### Lesson 5 Polynomial Multiplication Multiplying polynomials ...

Lesson 5 Polynomial Multiplication 1 Multiplying polynomials: - use the distributive property and the properties of exponents - here the distributive property can be used to distribute one term or multiple terms - after multiplying be sure to combine all like terms

#### **6.5 Dividing Polynomials.notebook**

Module 6 65 Dividing Polynomials Essential Question: What are some ways to divide polynomials, and how do you know when the divisor is a factor Of the dividend? @ Explore Evaluating a Polynomial Function Using Synthetic Substitution Polynomials can be written in something called nested form A polynomial in nested form is written in such a way

#### **LESSON Practice B 7-7 Multiplying Polynomials**

LESSON 7-7 Practice B Multiplying Polynomials Multiply 1 6 m 4 8 m 2 2 5 x 3 4x y 2 3 10 s 5t 7s t 4 48 m 6 20 x 4 y 2 70 s 6 t 5 4 4 x 2 5x 6 5 2x 3 x 4 6 7xy 3 x 2 4y 2 4 x 14 2 20x 24 6 x 2 8x 21 x 3 y 28x y 2 xy 7 x 3 x 4 8 x 6 x 6 9 x 2 x 5 x 2 7x 12 x 2 12x 36 x 2 7x 10 10 2x 5 x 6 11 m 2 3 5 m n 12 a 2 b 2 a b 2 x 2 17x 30 5

#### **LESSON Reteach Multiplying Polynomials - Weebly**

7-7 Multiplying Polynomials (continued) LESSON Use the Distributive Property to multiply binomials and polynomials Multiply x 3 x 7 x 3 x 7 2 5x 6 x 2 49 x 2 3x 2 Fill in the blanks below Then finish multiplying 19 x 3 2 x 2 4x 8 20 x 2 6 x 2 4x 5 x 2x 2 4x 8 3 2x 2 4x 8 x 6x 2 4x 5 2 6x 2 4x 5

#### **LESSON Reteach Multiplying Polynomials**

LESSON Reteach 6-2 Multiplying Polynomials (continued) Use the Distributive Property to multiply two polynomials Distribute each term of the first polynomial to each term of the second polynomial Multiply: x 2 4x 2 3x 1 Horizontal Method: x 2 4x 2 3x 1 [ 2x 4x x 3x x ...

#### **LESSON Practice B Multiplying Polynomials**

LESSON 7-7 Practice B Multiplying Polynomials Multiply 1! 6 m 4 " ! 8 m 2 " 2! 5 x 3 "!4x y 2 " 3! 10 s 5t " ! 7s t 4 " 48 m 6 20 x 4 y 2 70 s 6 t 5 4 4 ! x 2! 5x ! 6 " 5 2x! 3 x " 4 " 6 7xy!3 x 2! 4y ! 2 " 4 x ! 2! 20x ! 24 6 x 2" 8x 21 x 3 y ! 28x y 2 14xy 7! !x ! 3 " x ! 4 " 8! !x " 6 " ! "x " 6 " 9 x " 2 ! x " 5 " x 2! 7x ! 12 x 2

#### NAME DATE PERIOD 8-3 Practice

(3y2 + 2y + 2)(3y - 4y - 5) 4 x 4 - 12 x 3 + 8 x 2 + 6 x - 9 9 y 4 - 6 y 3 - 17 y 2 - 18 y - 10 GEOMETRY Write an expression to represent the area of each figure

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Activity 25 Multiplying Polynomials 369 ACTIVITY 25 conttnuea My Notes Lesson 25-1 Multiplying Binomials Another example of an office in which TriCom installed a network had 9 computers along each wall The computers are aligned in an array with the

#### Lesson 6.2--Multiplying Polynomials - Wapak

Mar 22, 2010  $\cdot$  Lesson 62--Multiplying Polynomials To multiply a polynomial by a monomial, use the Distributive Property and the Properties of Exponents Find each product Example: A fg(f4 + 2f3g - 3f2g2 + fg3) To multiply any two polynomials, use the Distributive Property and multiply each term in the second polynomial by each term in the first

#### Lesson 9: Multiplying Polynomials - MR. PUNPANICHGUL

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#### **LESSON 6.2 POLYNOMIAL OPERATIONS I**

w3x7y 6w2y5 Write the factors with base w next to each other, and write the factors 1 3 6 (w3 w2)(x7)(y1 y5) with base y next to each other Use the Multiplication Property 1 3 6 (w3 2)(x7)(y1 5) of Exponents Simplify 2w5x7y6 Example 629 Example 628 LESSON 62 POLYNOMIAL OPERATIONS I EXPLAIN 389 Concept 2 has sections on •Multiplying a

#### **Unit Name: Unit 1: Extending the Number System**

Step 6: Reflect with your students regarding whether or not all of their answers are polynomials? It is important for them to understand that

polynomials are closed under addition, subtraction, and multiplication Have your students write an exit slip (Polynomial Exit Slip) demonstrating their knowledge

# **LESSON Reteach Dividing Polynomials**

6-3 Dividing Polynomials LESSON In arithmetic long division, you follow these steps: divide, multiply, subtract, and bring down 6 2 5 Step 5 Multiply that sum by a, or 3 Write the product in the third column Add the numbers in the column Draw a box around the last number It is the remainder

# **5.1 Multiply Polynomials.notebook**

51 Multiply Polynomialsnotebook 5 April 12, 2012 FIRST OUTSIDE INSIDE LAST (3x + 7) (x 5) HOW TO USE FOIL Note: You can find the product of two binomials by multiplying each term in the first binomial by each term in the second binomial Then simplify by ...

# Polynomials 5.1 Monomials - Jal, NM

Polynomials 53 Dividing Polynomials Objectives: • Students will divide polynomials using long division • Students will divide polynomials using synthetic division In lesson 51 we learned how to divide monomials We can also divide a polynomial by a monomial Simplify 4 ...

# **LESSON 6.2 - POLYNOMIAL OPERATIONS I**

LESSON 62 POLYNOMIALS OPERATIONS I EXPLAIN 267 Sample Problems 1 Evaluate the polynomial 2r 3 + 3s2r - 3s + 5 when r = 5 and s = -2When multiplying a monomial by a polynomial with more than one term, you need to multiply every term in the polynomial by the monomial

### **Section 3.5: Multiplying Polynomials**

Section 35: Multiplying Polynomials Objective: Multiply polynomials Multiplying polynomials can take several di erent forms based on what we are multiplying We will rst look at multiplying monomials; then we will multiply Factoring will be addressed in a future lesson Multiply by FOIL Another form of multiplying is known as FOIL Using