

Multiplying Polynomials

EQ: What kinds of exponents does long number have?

EQ: How do we multiply monomial and polynomial?

Mind Warmers:

1. Simplify the expression $(4x^2)^3$ $(4x^2)(4x^2)(4x^2) = 64x^{12}$	2. Simplify the expression. $\frac{6x^7}{3x^2}$ $2x^5$	3. Simplify the expression. $(4x^2)(7x^3)$ $28x^5$
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Gather Information:

Monomial - Polynomial

What property is being used to solve this equation?

Distributive Property

Example:

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

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

Binomial - Binomial How do we multiply two binomials?

FOIL, really means distributive property

Example:

$$(x + 3)(x + 2)$$

$$x^2 + 2x + 3x + 6$$

$$x^2 + 5x + 6$$

Distributive Property

$$x(x + 2) = x^2 + 2x$$

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

$$x^2 + 5x + 6$$

Box Method

	x	$+2$
x	x^2	$2x$
$+3$	$3x$	6

$$x^2 + 5x + 6$$

Binomial - Trinomial

How do we multiply a binomial and a trinomial?

Distributive Property

Example:

$$(x + 2)(x^2 + 3x + 2)$$

$$x^3 + 4x^2 + 4x + 4$$

Polynomial - Monomial How do we divide a polynomial and a monomial?

Split up fractions under each term, then simplify

Example:

$$\frac{2x^3 + 6x^2 - 4x^2 + 2x}{2x} = x^2 + 2x^2 - 2x + 1$$

Lesson Plan Polynomials

Joseph F. Callahan, Leonard H. Clark



Lesson Plan Polynomials:

Every Math Learner, Grades 6-12 Nanci N. Smith, 2017-02-02 As a secondary mathematics teacher you know that students are different and learn differently And yet when students enter your classroom you somehow must teach these unique individuals deep mathematics content using rigorous standards The curriculum is vast and the stakes are high Is differentiation really the answer How can you make it work Nationally recognized math differentiation expert Nanci Smith debunks the myths revealing what differentiation is and isn't In this engaging book Smith reveals a practical approach to teaching for real learning differences You'll gain insights into an achievable daily differentiation process for ALL students Theory lite and practice heavy this book shows how to maintain order and sanity while helping your students know understand and even enjoy doing mathematics Classroom videos teacher vignettes ready to go lesson ideas and rich mathematics examples help you build a manageable framework of engaging sense making math Busy secondary mathematics teachers coaches and teacher teams will learn to Provide practical structures for assessing how each of your students learns and processes mathematics concepts Design implement manage and formatively assess and respond to learning in a differentiated classroom Plan specific standards aligned differentiated lessons activities and assessments Adjust current instructional materials and program resources to better meet students needs This book includes classroom videos in depth student work samples student surveys templates before and after lesson demonstrations examples of 5 day sequenced lessons and a robust companion website with downloadables of all the tools in the books plus other resources for further planning Every Math Learner Grades 6-12 will help you know and understand your students as learners for daily differentiation that accelerates their mathematics comprehension This book is an excellent resource for teachers and administrators alike It clearly explains key tenants of effective differentiation and through an interactive approach offers numerous practical examples of secondary mathematics differentiation This book is a must read for any educator looking to reach all students Brad Weinhold Ed D Assistant Principal Overland High School *Planning for Learning* Mary Renck Jalongo, Sue Rieg, Valeri Helterbran, 2007 This book represents the next step in the critical role that lesson planning plays in effective teaching The authors examine practices from many different areas of education in the U S and around the world to create an approach to lesson planning and evaluation that will work in today's diverse school settings The heart of the book demonstrates collaborative lesson planning for teachers at particular career phases preservice novice and experienced *Teaching Mathematics in Secondary and Middle School* James S. Cangelosi, 1992 Teaching in the Middle and Secondary Schools Joseph F. Callahan, Leonard H. Clark, 1992 Algebra Iglobal Educational Services, 2017-05-08 Tutoring is beginning to get the respect and recognition it deserves More and more learners require individualized or small group instruction whether it is in the classroom setting or in a private tutoring setting either face to face or online It is conceived and created for tutors and educators who desire to provide effective tutoring either in person or online in any educational

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Instructor's Manual with Test Bank to Accompany Fu Nctions Modeling Change
 Connally,1999-12-15 **The Effects of Constructivist Approaches on Ninth Grade Algebra Achievement in Thailand**
 Aumporn Makanong,2000 Turning on Learning Carl A. Grant,Christine E. Sleeter,2003

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Algebra 1 ,1991

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