

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 $(4x^2)^3$ $(4x^2)(4x^2)(4x^2) = 64x^{2*3}$	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:**

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

Lesson Plan Polynomials

Brendan G. Carr



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 *Instructor's Manual with Test Bank to Accompany Functions Modeling Change* Connally, 1999-12-15 **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 setting including the classroom Rather than provide a specific curriculum to follow Algebra High School Math Tutor Lesson Plan Series provides a blueprint to design effective tutoring lessons that are aligned with the Dr Holland Johnson s Session Review Framework Tutor evaluators and coaches are able to analyze tutoring sessions and coach tutors when utilizing the Dr Holland Johnson s Lesson Plan Blueprint for Tutors In each lesson plan learners have an opportunity to focus on real world connections vocabulary and practice the math concepts learned in the tutoring sessions in the appropriate amounts to learn and retain the content knowledge Tutors will have an opportunity to provide direct and guided instruction while learners practice concepts on their own during independent instruction Each lesson plan comes with a mini assessment pertaining to the math concepts learned in the specific tutoring session Depending on the learner s academic needs the tutor or teacher will deem when it is appropriate to administer the mini assessment For online tutoring sessions or as an online option to take the mini assessment tutors and teachers can upload these mini assessments to be completed online in their choice of an online assessment tool

Teaching in the Middle and Secondary Schools Joseph F. Callahan, Leonard H. Clark, 1992

Turning on Learning Carl A. Grant, 1998-01-15 This is a very applied companion text to *Making Choices for Multicultural Education* by Sleeter especially on the Social Reconstructionist approach advocated in *Making Choices for Multicultural Education* This text educates readers on how to take existing lesson plans and re work them to become multicultural A discussion explaining why the changes were made follows each lesson plan

[The Effects of Constructivist Approaches on Ninth Grade Algebra Achievement in Thailand Secondary School Students](#) Aumporn Makanong, 2000

Learning with Routines: Preservice Teachers Learning to Lead Classroom Mathematics Discussions Hala Nadim Ghouseini, 2008

Seeing Through Mathematics; Teaching Guide, 1965 *Prentice Hall Algebra 1* Jan Fair, 1992

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On Integrating Peace and Human Rights in Secondary Education Perlyn G. Bunyi, 2006

[New York Math: Math B](#), 2000

[The Transactions of the Institute of Electronics and Communication Engineers of Japan](#) Denshi Tsūshin Gakkai, 1986

[Glencoe Algebra 1](#), 2001

[Mathematics, Pedagogy, and Secondary Teacher Education](#) Thomas J. Cooney, 1996 Each of the chapters shed new light on what it means to integrate content and pedagogy in a teacher education context

[Teaching Secondary Mathematics](#) Alfred S. Posamentier, Beverly S. Smith, Jay Stepelman, 2006 For courses in Secondary Mathematics Methods Teaching Secondary Mathematics Techniques and Enrichment Units 7th edition has been thoroughly revised to discuss current methods of teaching mathematics considering all aspects and responsibilities of the job beginning with a brief overview of the history of mathematics education and how it has evolved over time to include standards for teaching and assessment The authors address how to craft rich and effective daily lesson plans and how to use a variety of instructional tools and strategies to reach all students in a classroom Problem solving is a key focus from its instructional underpinnings to its

recreational and motivational aspects The second part of the text provides mathematics teachers with a collection of enrichment units appropriate for the entire secondary school curriculum spectrum *Proceedings of the ... International Conference on Technology in Collegiate Mathematics* ,1995 **Secondary School Teaching Methods** Leonard H. Clark, Irving S. Starr, 1967

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