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Problem: $(x-4)(2x^2+3x+6)$

	$2x^2$	$3x$	6
x	$2x^3$	$3x^2$	$6x$
-4	$-8x^2$	$-12x$	-24

Combine like terms:

$$2x^3 + 3x^2 - 8x^2 + 6x - 12x - 24$$

$(2x + 3y)(x - 2y)$	Original Problem
$(2x+3y)(x-2y)$ $2x^2$	Multiply the F irst terms: $(2x)(x) = 2x^2$
$(2x+3y)(x-2y)$ $2x^2 - 4xy$	Multiply the O utside terms: $(2x)(-2y) = -4xy$
$(2x+3y)(x-2y)$ $2x^2 - 4xy + 3xy$	Multiply the I nside terms: $(3y)(x) = 3xy$
$(2x+3y)(x-2y)$ $2x^2 - 4xy + 3xy - 6y^2$	Multiply the L ast terms: $(3y)(-2y) = -6y^2$
$2x^2 - xy - 6y^2$	Combine like terms: $-4xy + 3xy = -xy$
$2x^2 - xy - 6y^2$	Solution.

Multiplying Polynomials

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

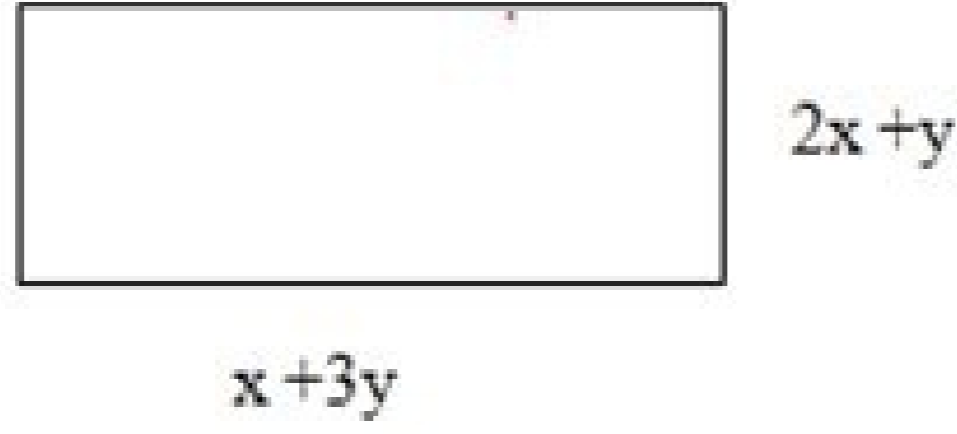
$$= (x^2)(2x + 2) + (5x)(2x + 2) + (-6)(2x + 2)$$

$$= 2x^3 + 2x^2 + 10x^2 + 10x + -12x - 12$$

$$= 2x^3 + 12x^2 - 2x - 12$$

In order to find the area of the rectangle, we need to multiply the length times the width.

$$A = l \times w$$



Original Problem

$$A = l \times w$$

$$A = (x + 3y)(2x + y)$$

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

$$2x^2$$

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

$$2x^2 + xy$$

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

$$2x^2 + xy + 6xy$$

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

$$2x^2 + xy + 6xy + 3y^2$$

$$2x^2 + 7xy + 3y^2$$

$$2x^2 + 7xy + 3y^2$$

Multiply the **F**irst terms:
 $(x)(2x) = 2x^2$

Multiply the **O**utside terms
 $(x)(y) = xy$

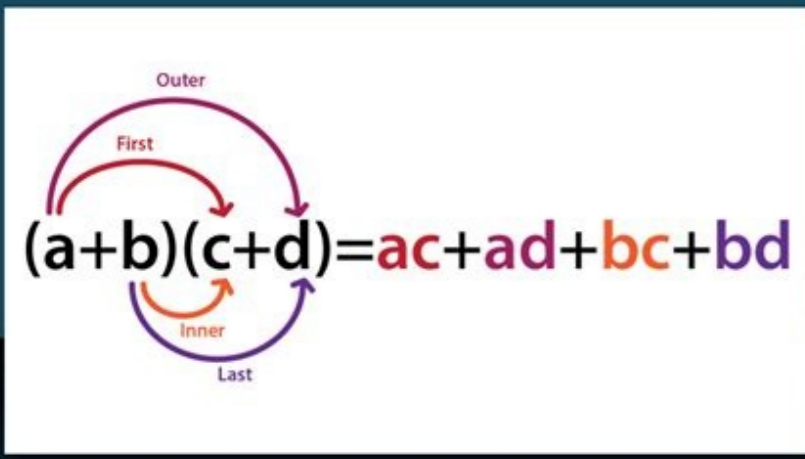
Multiply the **I**nside terms
 $(3y)(2x) = 6xy$

Multiply the **L**ast terms
 $(3y)(y) = 3y^2$

Combine like terms:
 $xy + 6xy = 7xy$

Solution. The area of the rectangle is $2x^2 + 7xy + 3y^2$

The FOIL Method



19+ Surefire Examples!



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You must have: x2 + x + 2x + 2Step 5: Combine similar terms. I took the test, but I think I'll keep my score. (The product of 2 times x is 2x.) Step 4: Multiply the last terms in each of the two binomials. (Imagine, you made math a 'positive' experience! He-he...) This really is a useful didactic guide for learning how to multiply polynomials. Put each term on one of the polynomials above and the terms of the other polynomial below on the left side. I really liked how you used the examples and illustrations along, very well explained. Multiply Binomials Using the FOIL MethodA polynomial with only two terms is called a binomial. :) Patty Inglish MS from USA and Asgardia, the First Space Born on March 10, 2012:I really like the use of colors. A way to remember this, which you've probably heard before: "Please excuse my dear Aunt Sally".I hope that helps!Kelly Umphenour from St. Louis, MO on March 11, 2012:Hey Melbel! Cool a I have to keep up with the day a my middle daughter is now in middle school.... algebra has started! Ohhh I don't even remember the right order of operations now! But a be exactly where I go when I hear their absolute polynomials! Thanks a in advance;) Marisa Hammond Texas Olives on March 11, 2012:Wow Melanie! I love the graphics and colors you used! The graphics and the format of this impressive center. Melanie Palen (author) from Midwest, USA, March 11, 2012:Wow! Thank you! I was actually really debating what colors to use, but I decided to go with something that looked like a kind of hubpages-y. Write down the product. Since there are no more terms in the left polynomial of our example, you can go ahead and jump to step 4.Step 4: Combine similar terms:x4-11x3+6x2+5x2-55x+30 = Using a quadr-comience with a grid that contains the Terms a polynomial through the top and the terms of the other down below side.Melanie ShebelMultiply the term in the first row by the term in the first column. If no exponent is written, it is assumed to be the first power. Combine like terms and voila, you have FOIL down pat!Melanie Shebel Look at your signs: The product of a positive multiplied by a positive will be positive.The product of a negative multiplied by a negative will be positive.HOW to multiply polynomials now!Melanie Palen (author) from Midwest, USA on March 12, 2012:Middle school math wasn't fun for me! I think it's amazing that you're helping your daughter with math. Mathematics was not my strong point;) Great hub, and very useful for many!Jessee R from Gurgaon, India on April 30, 2012:Great hub! Great basics to learn and the Foil method is very well explained here!David Warren from Nevada and Puerto Vallarta on April 02, 2012:This is a phenomenal hub! I'm taking an online course at M.I.T. and my math skills are a little rusty since I'm not so young anymore, hehe. Anyway thanks for sharing this, great job! Voted above and awesome!Free marketing now from California on 15 March, 2012:Now, the next question is: What is the real-life application of multiplying polynomials?India Arnold from Northern, California on March 14, 2012:Easy to follow, simply explained, and clearly drawn examples made the learning process a positive experience. (The product of x times x is x2.) Step 2: Multiply the external terms on each of the two binomials. The answer key is as follows. (x+2)(x+6) (x-3)(x+4) (x+7)(xA2+2x+1) 7xA2+3x+8xA3+9xA2+15x+771xA3+9xA2+x+1None of the above optionsAnswer Keyx2+8x+12xA2+2+8x+12xA2+12xA3+9xA2+15x+7Distributor Polynomials (Without LIMINA) When it comes to the multiplication of two polynomials, al al ed otcudorp le enelleR .alucArdauc al ed ordauc adae ne .)1+x(ed x al y)2+x(ed al nos Aua sonimr@At soremirp sol .adreituqzi al a se sonimr@At somen noc oimniolop le euq arenam ed For the row by the throad of the column. Then, it will be -6x and since the product of -3x and 2y are negative (if the sign more wakes up, you can write it as 12x2 + -6xy.The fulmultipl the first such terms, the outside, the interior , and finally the last terms. GRANDE HUB! Hubbugs - Brittany Kennedy from Kailua-Kona, Hawaii on March 12, 2012: Did Simone said! This was so easy to read and clear, I am going to send him to my brother who studies Algebra! What a wonderful center! Great work, voted, useful, etc. Simone Haruko Smith of San Francisco on March 12, 2012: Melbel !!! where is N Tu when I had to learn this stuff for the first time?!?! 1111 You have illustrated the process splendidly, and the things of the diagram that you have provided are supervils. For the previous problem, multiplication X2 by Each X2, -11x, and 6. It should have X4-11x3 + 6x2.PASO 2: Multiply the next term in the polynomial on the left for each term in the polynomial on the right. For the previous problem, you multiply 5 per x2, -11x, and 6. Now, you must have x4-11x3 + 6x2 + 5x2-55x + 30.PASO 3: Multiply the next term in the polynomial on the left for each term in the polynomial on the right. Great tutorial for whom you ever need to learn polynomials.katinaemilybee on April 30, 2012: So!Aa Amar Foil, was basically the only thing related to polynomials that I understood. This is because any number is equal to itself at the first power. Multiply 1 TÁ © rhine. Melanie Shebelmultipl 1 Témino By 2 Termsin Multiply a Term By Two Terms. You have to distribute them between peppers. Examplerobero: 3x (4x + 2y) Step 1: Multiply 3x by 4x. Lol, but seriously, a € you really exposed it very well and explained the steps and the concept Work and a great lesson a € "Thank you! Melanie Palen (author) from Midwest, USA, on March 11, 2012: Okay. Foil Foil. So of the old school (of the days we did in school). The response key is as follows. (5)(4x) = (7)(x) (1)(2x) Rapid response key on the exponential multiplication at the exponents, the coefficients are added. 2x + 3x = 5x.x + x = 2xasá, what is done by multiplying exponents? X · x =? By multiplying similar variables with exponents, only the exponents are added. (X2)(x3) = This is the same as saying x Á · x Á · x (2xy) = 10x2yesto is the same as saying 2 Á · Y O 2 Á Á · 5 Á Á · · · · · x = x1. There is nothing here with an X2 connected to it, so X2 remains as it is, X and 2x can be combined to match 3x, and 2 remains as it is because there are no other constants. If the polynomials have the same number of terms, you can leave it as such. For example, if your problem is: (x2-11x + 6) (x2 + 5) Reorganize it so that it has the following look: (x2 + 5) (x2-11x + 6) Step 1: Multiply the first thread in the polynomial on the left for each term in the polynomial on the right. Now I wait with interest reading its next center on the factorization of polynomials! J) CLOVERLEAF DEALY, AB, Canada on March 11, 2012: An excellent refreshment! You have taken me back to my good old days at school. I like checks to understand with the questionnaires. Melanie has a bachelor's degree in physical sciences and is in graduate school for analysis and modeling. Since it is so practical to have ordered polynomials alphabetically, I feel tempted to say, "Yes, you need to order them alphabetically". © 2012 Melanie Palenhesa Humaid on March 28, 2020: I'm going to have a great test for this , and this has helped me a lot, thank you :) aty on october 24, 2012: I am learning it at school, but I have not been able to multiply these polynomials. Thank you for your advice ... Katina Davenport on April 30, 2012: Remember well these of high school and He also directs a Youtube channel: the curious encoder.Melanie Shebel¿ What is a polynomial? A polynomial can be formed by variables (such as X and Y), constant (as (as 5, and 11), and exponents (like 2 in x2.) At 2x plus 4, 4 is the constant and 2 is the coefficient of x.Polynomials must contain addition, subtraction or multiplication, but not division. Your final answer is: x2 + 3x + 2Distribute each term in one polynomial to each term in the other polynomial.Practice what you've learned: Multiplying polynomialsFor each question, choose the best answer. (The product of x times 1 is 1x, or x.) Step 3: Multiply the internal terms into the two binomials. The use of the distribution method can become really messy, so it is easy to forget to multiply some terms.The best way to multiply polynomials is the grid method. You can get rid of the parenthesis and write it as 3 Á Á · 2 Á Á · x. I think I almost... Another thing that is nice about the grid method is that you can use it to multiply any kind of polynomials whether they are binomials or have twenty terms!Start by making a grid. Gee... Use it to multiply instead!) Because of the commutative property of multiplication, you can multiply the terms in any order, so let's solve this by going from left to right:3 equals 2 x3 times 2 is 6, so we're left with-6x, which can be written as 6x.Practice what you've learned: Multiply monomiesFor each question, choose the best answer. Since there are no similar terms to add, you are done.If you are dealing with negative numbers or subtraction, you have to look at the signs.For example, if the problem is -3x (4x+2y), you will have to multiply negative 3x times everything in the parentheses. Write down the product.It must have 12x2 + 6xy written down. Nor can they contain negative exponents.The following example is a polynomial that contains variables, constants, addition, multiplication and a positive exponent:3y2 + 2x + 5Each segment of a polynomial that is separated by addition or it is called the term (also known as monomial). The polynomial polynomial has three terms. (3)(2x) is like saying 3 times 2 times x.Melanie ShebelMultiply three times two times x to get 6xMelanie ShebelMultiply a Monomial times a MonomialBefore jumping into the multiplication of polynomials, let's break it down into the multiplication of monomials. The outer terms here are the x of (x+2) and the 1 of (x+1). I'm glad you liked the color scheme. It only works for binomials, but it doesn't work with others (like trinomial times trinomial) Xavier Nathan from Isle of Man on 11 March, 2012:You've done a great job explaining this theme and colors really make the difference. Ranked Up and Awesome and more.anuramkumar from Chennai, India on March 10, 2012: They found it very helpful. Since the product of -3x and 4x is negative, you would have -12x2. I want to create the perfect guide for multiplying polynomials and if there's something you don't quite understand.Questions and AnswersQuestion: Do we need to organize polynomials alphabetically?Answer: Although this is not a requirement, organizing polynomials alphabetically is a very good practice because it helps to notice patterns (especially when combining similar terms) as well as to make fewer mistakes. It can be confused with the letter x as a variable. The algebra was way above my parents' head, so I was alone:Rorder of opps is PEMDAS: Parentheses, Exponents, Multiplication/Division and Sum/Remain. Sum/Remain.

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