

Any quadratic equation can be solved using the completing the square method

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Quadratic Formula. D.Russell Use the Quadratic Formula to Solve the Equations(Answers on 2nd page of PDF. Sample questions are: 1.) $2x^2 = 98$ 2.) $4x^2 + 2x = 42$ 3.) $x^2 = 90 - 2x - 4$.) $x^2 + 2x = 63$ 5.) $5n^2 - 15 = 10n$ 6.) $2x^2 = 44 + 3x$ 7.) $4x^2 - 10x = 84$ 8.) $x^2 - 16 = -6x$ 9.) $x^2 = 36$ 10.) $x^2 - 4x = 96$ Each worksheet is in PDF for quick printing. Note that the answers are found on the second page of the PDF. Although there are other methods to solve quadratic equations (factoring, graphing, completing the square) it is important to use efficiency, hence you are asked to use the quadratic formula to solve these questions. However, there are other worksheets that require you to complete the square, factor and graphing. It's important to be able to use the various methods so that you will eventually be able to use the most efficient method. After all, algorithms in math were developed to increase efficiency. Long ago, a teacher reminded me in a jokingly way that mathematicians are lazy, hence let's find all the shortcuts possible. From crafting small jewelry box or kitchen drawer to the layout of a massive patio or deck, a great many building projects require that you "square up" the corners of any project that needs to be precisely square or rectangular in shape. Woodworkers, carpenters, and landscape pros have a fairly easy method of doing this, based on ancient mathematical principles. The Greek mathematician Pythagoras is credited with discovering and proving in ancient time what would later be famously known as the Pythagorean Theorem. In reality, it's likely that this principle was used for thousands of years before being formally proven by the Greek mathematician. If you remember anything from your schooling, you may remember this "a² +b² = c²" rule for calculating measurements of a right triangle. In the hands of woodworkers and builders, the Pythagorean Theorem becomes the 3-4-5 proportion method for establishing square layout lines or checking a project to make sure its angles are square. The 3-4-5 method works as follows for a woodworking project: On one side of a corner, measure 3 inches (or some multiple of 3 inches) from the corner and make a mark. On the opposite side of the corner, measure 4 inches (or the same multiple of 4 inches) from the corner and make a mark. Next, measure between the two marks. If the distance is 5 inches (or the appropriate multiple of 5), your corner is square. The key element here is the proportions used, not the unit of measurement. The 3-4-5 method could also be the 6-8-10 or the 9-12-15 method since the proportions are the same. And any standard of measure can be used, whether it is inches, centimeters, feet, or meters. For outdoor project layouts, for example, establishing square corners for a patio layout might use 3 feet, 4 feet, and 5 feet as the measurements for checking layout lines. Why does this work? Because the 3-4-5 method is simply a modified version of the classic Pythagorean Theorem. If we plug the following values into the theorem (a=3, b=4, c=5), we find that the equation is true: 3² (9) plus 4² (16) is equal to 5² (25). The beauty of this rule is that it is scalable to almost any size. An excavation crew digging a foundation for a home, for example, can position long strings stretched between batter boards, then use measurements of 9, 12, and 15 feet to check for squareness of the foundation layout. And of course, metric units of measurement can also be used. For that matter, any unit of measurement can be used, up to miles or kilometers. It doesn't really matter what scale you use, provided you maintain the standard proportional relationship of 3-4-5. Early algebra requires working with polynomials and the four operations. One acronym to help multiply binomials is FOIL. FOIL stands for First Outer Inside Last. We look at the first binomials which are 4x and x which gives us 4x2 Now we look at the two outside binomials which are 4x and 3 which gives us 12x Now we look at the two inside binomials which are 6 and x whichh gives us 6x Now we look at the last two binomials which are 6 and 3 which gives us 18 Finally, you add all of them together to get: 4x² +18x + 18 All you need to remember is what FOIL stands for, whether you have fractions involved or not, just repeat the steps in FOIL and you will be able to multply to binomials. Practice with the worksheets and in no time it will come to you with ease. You are really just distributing both terms of one binomial by both terms of the other binomial. Here are 2 PDF worksheets with answers for you to work on to practice multiplying binomials using the FOIL method. There are also many calculators that will do these calculations for you, but it is crucial you understand how to multiply binomials correctly before using calculators. You will need to print the PDFs to see the answers or practice with the worksheets. Also, here are 10 sample questions to practice with: (4x - 5)(x - 3)(4x - 4 (x - 4)(2x + 2) (3x + 5)(4x - 2) (3x + 3)(x - 1) (2x + 5)(5x + 2) (4x + 4)(3x - 3) (x - 2)(4x + 1) 3x + 2)(5x + 3) 3x + 4)(3x - 3) (3x + 2) It should be noted that FOIL can only be used for binomial multiplication. FOIL is not the only method that can be used. There are other methods, although FOIL tends to be the most popular. If using the FOIL method is confusing for you, you may wish to try the distributive method, the vertical method or the grid method. Regardless of the strategy, you find to work for you, all the methods will lead you to the correct answer. After all, mathematics is about finding and using the most efficient method that works for you. Working with binomials usually occurs in the ninth or tenth grades in high school. An understanding of variables, multiplication, binomials are required before multiplying binomials.

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