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Practice worksheet completing the square

What does it mean to complete the square? Well, it's about taking a quadratic equation, and expressing it in the form, 'textcolor', black'ax² 'b x' c 'left(x 'left', 'x's ' 'textcolor'd' 'right') and, 'textcolor'blue', 'textcolor', 'i.e., 'c-dfrac'2'4a' or 'textcolor-blue' 'textcolor', 'text', 'text-a-text-red'd'textcolor-black-2' Solving quadratics via square completion can be tricky , we must first write the quadratic in the form (x-textcolor-red)-2 -textcolor-blue- then we can solve it. From a-1, this can be done in 4 easy steps. Example: By completing the square, solve the following quadratic x-2-6x - Step 1: Rearrange the equation so that it is 'begin-aligned',' Step 2: Half of the x coefficient, so in this case 'textcolor'red'd'6-div 2-textcolor-red{3} , and add it in place of 'textcolor'red'd' (x-textcolor-red-{3})-2 'textcolor'blue' Step 3: Then we have to find 'textcolor'blue' that equals the constant at the end of the quadratics, '2, less 'textcolor', then replace 'textcolor'blue' in the equation (textcolor blue-e'textcolor', 'textcolor'black', and 'textcolor'. 'beginaligned'-text-blue'. 2 -textcolor-maroon{9} 'textcolor' X-textcolor-red-{3}) -2 textcolor-blue-7-7- 0 Step 4: Now we have the equation in this form, we can solve the equation. 'begin-aligned' ('7');(x-3) -7 0, (sqrt{7}) {7}) gives solutions to be 'sqrt{7} - 3 and -sqrt{7} - 3 Remember: A square root can have both a positive and negative solution when things aeq1 get a little trickier. The majority of the method is the same but with an additional factoring step at the beginning. Example: Write 3x² - 5x-3 in the form of 'textcolor-limegreen'(x-textcolor-red)-2-textcolor-blue-step 1: Factor the first two terms by coefficient in front x-2, it now becomes 'textcolor'limegreen'a' 'textcolor'limegreen'{3}'bigg'(x-2's'dfrac{5}{3}'s')-3 Step 2: Half the coefficient of x, half and write it in place of 'textcolor'red'd'dfrac{5}{3}'div 2' 'textcolor'5{6}'textcolor' Then we have to find 'textcolor'5{6}'blue', which equals the constant at the end of the quadratic result, -3, minus the 'non-x' result of the expansion of the media. (textcolor-blue '3'bigg (x-dfrac{5}{6}-bigg)-bigg (x -3-bigg{5}{6}-bigg{5}{6}) 2 -5x -dfrac{5}{6} {25}{12} 3-bigg (x-dfrac{5}{6}-bigg)-2 -3 - 'dfrac{25}{12} 3'bigg (x-dfra{61}{12}{5}{6}c) Thus, the completed square is 'textcolor'limegreen'{3}-bigg (x-text-text-red-red{5}{6}-bigg)'s{61}{12} Print Answer Key PDF Take Now Schedule Copy Test Mathworksheetsgo.com All your worksheets are now here on Mathwarehouse.com. Please update your bookmarks! Students will practice solving quadratic equations by completing the 25-question square worksheet with answer key. Error: Please click Not a robot and then try downloading again. This is a 4-part worksheet: Part I Model Problems Part II Practice Part III Challenge Problems Part IV Answer Key Error: Please Click Not a Robot and then try downloading again. Complete the square - Practice Problems Move your mouse to the Answer to reveal the answer or click on the Complete Solution link to reveal all the steps needed to solve a quadratic by completing the square. Complete the square worksheet:Here we will see a matter of practice based on the concept complementing the square method. Complete the square - Practice Questions (1) Solve the quadratic equation x² - 6 x - 7 - 0 by completing the square method (2) Solve the quadratic equation x² - 3 x 1 - 0 by completing the square method (3) Solve the quadratic equation 2 x² - 5 x - 3 - 0 by completing the square method (4) Solve the quadratic equation 4 x² - 4 b x - (a² - b²) - 0 by completing the square method (5) Solve the quadratic equation x² - (√3 - 1) x - √3 - 0 by completing the square method Complete the square worksheet - Solution Question 1:Solve the quadratic equation x² - 6 x - 7 - 0 by completing the Square Method Solution: (x - 3)² - 16 x 3 - √ 16 x 3 - ± 4 x 3 - 4 x 1 x 3 - 4 - 4 - - 7 Question 2 :Solve the quadratic equation x² + 3 x + 1 = 0 by completing the square method Solution: x² + 3 x + 1 = 0x² + 3 x = -1x² + 2 x (3/2) + (3/2)² = - 1 + (3/2)² [x + (3/2)]² = (9/4) (x + (3/2))² = (5/4) (x + (3/2)) = ± (√5/2) x + (3/2) = (√5/2) x = (√5/2) x = (5/2)x + (3/2) = -(√5/2) - (3/2) x = (-√5 - 3)/2 Question 3 :Solve the quadratic equation 2 x² + 5 x - 3 = 0 by completing the square method Solution: 2 x² + 5 x - 3 = 0divide the whole equation by 2x² + (5/2) x = (3/2) x² + 2 x (5/2) + (5/2)² = (5/2)²+ (3/2)(x + (5/2))² (25/4) + (3/2)(x + (5/2))² = (25 + 6)/4(x + (5/2))² = 31/4x + (5/2) = ± √31/2 x + (5/2) = √31/2 x = (31/2) - (5/2) x = (31/2) - (5/2)x = (-√31/2) - (5/2)x = (- √31-5)/2 Question 4 :Résoudre l'équation quadratique 4 x² + 4 b x - (a² - b²)= 0 en complétant la méthode carrée Solution:4 x² + 4 b x - (a² - b²)/4= 0 x = (a - b)/2Question 5 :Résoudre l'équation quadratique x² - (√3 + 1) x + √3 = 0 en complétant la méthode carrée Solution: x² - (√3 + 1) x + √3 = 0 x = -1 , -√3 Nous espérons que les élèves auraient compris les problèmes de choses et d'exemples expliqués sur « Compléter la feuille de travail carrée ». Aside from the problems of things and examples explained above, if you want to learn more about Complete the Square Worksheet, please click here If you have any comments on our mathematical content, please email us: v4formath@gmail.comWe always appreciate your comments. You can also visit the following web pages on different things in mathematics. 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Solve the following quadratic equations by completing the square (i) x²-6x-7 - 0(ii) x²-3x-1 - 0(iii) 2x²-5x-3 - 0(iv) 4x²-4bx-(a²-b²) - 0(v) (0(v) (0)v) 5x-7)/(x-1) - 3x-2 Solution Question 1:x²-6x-7 - 0 Step 1:Note that the x² coefficient is 1, so don't have to divide the whole equation by a numerical value. Step 2: Write the x coefficient as multiple of 2.x2-x-2-x-3-7 - 0Step 3:Here, the first and second term is in the form a2 -2ab, in order to complete this formula, we need b2. Here b - 3x2 -2-x-3-32-32 - 0 (x-3)2-9-7 - 0 (x-3)2-16 - 0 (x-3) - √16 x-3 - ±4 x 3 - 4x - 1 x -3 - -4x - -7 Question 2:x²-3x-1 Solution: Step 1: Note that the x² coefficient is 1, so don't have to divide the whole equation by a numerical value. Step 2: Write the x coefficient as multiple of 2.x2-x-(3/2)-1 - 0Step 3:Here, the first and second term is in the form a2 -2ab, in order to complete this formula, we need b2. Here b - 3 x22 -x (3/2)-(3/2)2 -1 -0 [x - (3/2)]2 - (9/4) - 1 [x] 2 - 5/4 x 2 - √ (5/4) [x-3/2] - ±√5/2 x - (5/2) So the solution is '√5-3)/2, (-√5-3)/2. Question 3:x²-5x-3 - 0Solution:Step 1:Note that the coefficient of x² is 2, divide the whole equation by 2.x2(5x/2)-(3/2) - 0Step 2:Write the x coefficient as multiple of 2.x2-2-x(3/2)-1 - 0Step 3:Here the first and second term is in the form a2 -2ab, in order to complete this formula, we need to b2. Here b - 32x2 - 5x - 3 - 0Now, we will divide the whole equation by 2 (x-5/4) - √49/16 (x 5/4) - ±7/4 x -5/4 - 7/4x - 2/4x - 1/2 x -5/4 - -7/4x - -3 So, The solution is '-3', 1/2. Question 4:4x²-4bx-(a² - b²) - 0Solution:4x²-4bx (a² - b²) - 0Now, we're going to divide the whole equation by 4x²-bx-[a(a - b²)/4] - 0x²-2(x)(b/2)- (b/2)2 - [a2 - b2]/4[x - (b/2)]2 - a2/4[x - (b/2)] - √ (a2/4)[x - 'a'/2]'a'/2 x - 'a'/2 - 'a'/2x (-a-b)/2 So the solution is 'a-b'/2, (-a-b)/2.' Question 5 :(5x-7)/(x-1) - 3x-2Solution :(5x-7) - (3x-2)(x-1)5x-7 - 3x2-x-23x2-x-5x-7 7 -2 - 03x2-6x-9 - 0x2-2x-3 - 0 (x-3) (x-1) - 0 x-3 - 3 x 1 - 0x - -1 So the solution is '-1, It's a third- Apart from the data things in this section, if you need other things in mathematics, please use our custom google search here. If you have any comments on our mathematical content, please send v4formath@gmail.comWe always appreciate your comments. You can also visit the following web pages on different things in mathematics. 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