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## Quadratic inequalities worksheet with answers pdf

arrow back Back to Solving Quadratic Inequalities Whether you want a homework, some cover work, or a lovely bit of extra practise, this is the place for you. And best of all they all (well, most!) come with answers. Contents Mathster is a fantastic resource for creating online and paper-based assessments and homeworks. They have kindly allowed me to create 3 combinations of each worksheet, complete with answers. Worksheets Nos. 1-3 Quadratic inequalities 1-3. Created by teachers for teachers, this pack is brilliant! Back to Top Connect Maths offers outstanding original questions on quadratic inequalities, each problem has 5 models. It really is one of the very best websites around. Name: \_\_\_\_\_ Questions Solutions Quadratic Inequalities Questions Solutions A quadratic inequality is a function with a degree of 2, in which y may not be exactly equal to the function. Quadratic inequalities use inequality symbols (less than, greater than, less than or equal to, and greater than or equal to) to express relationships. In these worksheets, students will solve quadratic inequalities. For some problems, students will solve quadratic equations algebraically. For others, they will also state the solution set of the problem and graph on a number line. Paper for the students' number line graphs is required to accompany some worksheets. This set of worksheets contains step-by-step solutions to sample problems, both simple and more complex problems, a review, and a quiz. When finished with this set of worksheets, students will be able to solve quadratic inequalities both algebraically and by graphing. These worksheets explain how to solve these types of problems both algebraically and by graphing. Sample problems are solved and practice problems are provided. Page 2 [Home] This worksheet is a PDF document. You will need Adobe Acrobat Reader to view the worksheet or answers. Each worksheet may consist of several pages, scroll down to the see everything. Math worksheets and visual curriculum Solve for x : Problem 1 :  $3x^2 \leq 12$  Solution : $3x^2 \leq 12$  Subtract 12 on both sides, we get  $3x^2 - 12 \leq 12 - 12$   $3x^2 - 12 \leq 0$  Let  $f(x) \leq 0$   $3x^2 - 12 \leq 0$  So,  $x = 2$  and  $x = -2$  (critical numbers) The critical numbers are dividing the number line into three intervals. From the table, the possible values of x are  $-2 \leq x \leq 2$  writing it as interval notation, we get  $-2 \leq x \leq 2$  Problem 2 :  $x^2 - 4x + 4 < 0$  Solution :Let  $f(x) = x^2 - 4x + 4 < 0$  By factorization, we get  $(x-2)(x-2) < 0$  For any values of x,  $f(x)$  will not give negative value. So the solution is all real values. Problem 3 :  $2x^2 + 7x < -6$ Solution : $2x^2 + 7x + 6 < -6$ Add 6 on both sides, we get  $2x^2 + 7x + 6 < -6 + 6$  $2x^2 + 7x + 6 < 0$ Let  $f(x) = 2x^2 + 7x + 6$   $f(x) < 0$ 2x^2 + 7x + 6 < 0By factorization, we get  $(2x+3)(x+2) = 0$   $x = -3/2$  and  $x = -2$  (critical numbers) From the table, the possible values of x are  $-2 < x < -3/2$ By writing it as interval notation, we get  $-2 < x < -3/2$ So, the required solution is  $-2 < x < -3/2$ Problem 4 :  $x^2 \leq x + 2$ Solution : $x^2 - x - 2 \leq 0$ Subtract x and 2 on both sides, we get  $x^2 - x - 2 \leq 0$ So, the required solution is  $-1 \leq x \leq 2$ From the table, the possible values of x are  $-1 \leq x \leq 2$ By writing it as interval notation, we get  $-1, 2$ So, the required solution is  $-1 \leq x \leq 2$ Problem 5 :  $3x^2 - 6x + 3 > 0$ Solution :Let  $f(x) = 3x^2 - 6x + 3 > 0$ By factorization, we get  $(3x-3)(x+1) = 0$   $x = 1$  and  $x = -1$  Since we have square, for all positive and negative values of x we will get a positive value So, the answer is all real numbers. Problem 6 :  $2x^2 - 5 \leq 3x$ Solution : $2x^2 - 5 \leq 3x$ Subtract 3x on both sides, we get  $2x^2 - 5 - 3x \leq 3x - 3x$  $2x^2 - 5 \leq 0$ By factorization, we get  $(2x-5)(x+1) = 0$   $x = 5/2$  and  $x = -1$  From the table, the possible values of x are  $x \leq -1/2$  or  $x \geq 5/2$ By writing it as interval notation, we get  $[-1, 5/2]$ So, the required solution is  $-1 \leq x \leq 5/2$ Problem 7 :  $3x^2 \geq 2(x+4)$ Solution : $3x^2 \geq 2x + 8$ Subtract 2x and 8 on both sides, we get  $3x^2 - 2x - 8 \geq 2x + 8 - 2x - 8$  $3x^2 - 8 \geq 8$ By factorization, we get  $(3x+4)(x-2) = 0$   $x = 2$  and  $x = -4/3$ From the table, the possible values of x are  $x \geq 2$  or  $x \leq -4/3$ From problem 8 :  $6x^2 + 2 < 17x$ Solution : $6(x^2 + 2) < 17x$  $6x^2 + 12 < 17x$ Subtract 17x on both sides, we get  $6x^2 + 12 - 17x < 17x$  $6x^2 - 17x + 12 < 0$ By factorization, we get  $(2x-3)(3x-4) = 0$   $x = 3/2$  and  $x = 4/3$ From the table, the possible values of x are  $4/3 < x < 3/2$ By writing it as interval notation, we get  $(4/3, 3/2)$ So, the required solution is  $4/3 < x < 3/2$ Problem 9 :  $9x^2 \leq 12x - 4$ Solution : $9x^2 - 12x + 4 \leq 0$ Subtract 12x and add 4 on both sides, we get  $9x^2 - 12x + 4 + 4 \leq 12x - 4 - 12x + 49x^2 - 12x + 4 \leq 0$ By factorization, we get  $(3x-2)(3x-2) = 0$   $x = 2/3$ So, the possible value of x is  $2/3$ Problem 10 :  $4 < 5x^2 + 8x - 40 < 5x^2 + 8x - 4$ Solution : $4 < 5x^2 + 8x - 40 < 5x^2 + 8x - 4$ Subtract 5x^2 and 8x on both sides, we get  $-4 < 5x^2 - 8x + 0 < 5x^2 - 8x - 4 - 5x^2 - 8x - 5x^2 - 8x + 0 < -4Add 4 on both sides, we get  $-5x^2 - 8x + 0 + 4 < -4 + 4 - 5x^2 - 8x + 4 < 0$ Multiplying by '-' sign on both sides, so change the inequality  $<$  into  $>$ 5x^2 + 8x - 4 > 0By factorization, we get  $(5x-2)(x+2) = 0$   $x = 2/5$  and  $x = -2$  From the table, the possible values of x are  $x < -2$  or  $x > 2/5$ By writing it as interval notation, we get  $(-\infty, -2) \cup (2/5, \infty)$ So, the required solution is  $x < -2$  or  $x > 2/5$ Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. Kindly mail your feedback to v4fomath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com Supercharge your high school students' solving skills with our printable quadratic inequalities worksheets. Represent the inequality as an equation, moving the terms to one side and equating it to zero, factor the equation and find the zeros to obtain break points or critical points, graph them on a number line, and determine the interval. Solving quadratic inequalities algebraically, graphically, and completing the table of signs, graphing the parabola and shading the solution region based on the inequality are the exercises presented in these pdfs. You now have the chance to test your skills with our free quadratic inequalities worksheets. Printing Help - Please do not print quadratic inequalities worksheets directly from the browser. Kindly download them and print. Solving Quadratic Inequalities Algebraically | Level 1 With either -1 or 1 as leading coefficients and integer break points, these printable quadratic inequalities worksheets get high school students transforming quadratic inequalities into quadratic equations and factoring them to solve the inequality. Solving Quadratic Inequalities Algebraically | Level 2 Triumph in solving quadratic inequalities whose leading coefficients are integers by finding the factors, equating them to zero, determining their roots, and finding the solution range in this compilation of quadratic inequalities worksheet pdfs. Solving Quadratic Inequalities Algebraically | Level 3 Instruct high school students to express the quadratic inequalities in standard form by moving the expressions on one side and equating to 0, factor them, determine their roots, to find the critical point and figure out the solution interval. Solving Quadratic Inequalities | Table Method Factor the quadratic inequalities and list out the intervals in the table of signs. Take a test value from each interval and apply on both the factors. Complete the table with the resultant plus or minus sign. Select the solution range that satisfies the inequality. Graphing and Solving Inequalities Check if the quadratic inequality is inclusive or strict. Graph the parabola  $y = f(x)$  for the quadratic inequality  $f(x) \leq 0$  or  $f(x) \geq 0$ . Find the vertex and identify the values of x for which the part of the parabola will either be negative or positive depending on the inequalities. Graphing Quadratic Inequalities High school students plot x-intercepts, figure out the axis of symmetry and the vertex of the parabola, determine the direction, and illustrate the inequality using dotted or solid lines. Shade the parabola below or above the x-axis, inside or outside the parabola based on the solution.$



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