Linear-quadratic systems worksheet 1 answers english

You have probably solved systems of linear equations. But what about a system of two equations where one equation is linear, and the other is quadratic? We can use a version of the substitution method to solve systems of this type. Remember that the slope-intercept form of the equation for a line is y=mx+b , and the standard form of the equation for a parabola with a vertical axis of symmetry is y=a x 2 +bx+c, a≠0 . To avoid confusion with the variables, let us write the linear equation as y=mx+d where m is the slope and d is the y -intercept of the line. Substitute the expression for y from the linear equation, in the quadratic equation. That is, substitute mx+d for y in y=a x 2 +bx+c . mx+d=a x 2 +bx+c Now, rewrite the new quadratic equation in standard form. Subtract mx+d from both sides. (mx+d)−(mx+d)=(a x 2 +bx+c)−(mx+d) 0=a x 2 +(b−m)x+(c−d) Now we have a quadratic equation in one variable, the solution of which can be found using the quadratic formula. The solutions to the equation a x 2 +(b−m)x+(c−d)=0 will give the x -coordinates of the points of intersection of the graphs of the line and the parabola. The corresponding y -coordinates can be found using the linear equation. Another way of solving the system is to graph the two functions on the same coordinate plane and identify the points of intersection. Example 1: Find the points of intersection between the line y=2x+1 and the parabola y= x 2 −2 . Substitute 2x+1 for y in y= x 2 −2 . 2x+1= x 2 −2 Write the quadratic equation in standard form. 2x+1−2x−1= x 2 −2−2x−1 0= x 2 −2x−3 Use the quadratic formula to find the roots of the quadratic equation. Here, a=1, b=−2, and c=−3 . x= −(−2)± (−2) 2 −4(1)(−3) 2(1) = 2 ± 4+12 2 = 2 ± 4 2 =3, −1 Substitute the x -values in the linear equation to find the corresponding y -values. x=3⇒y=2(3)+1 =7 x=−1⇒y=2(−1)+1 =−1 Therefore, the points of intersection are (3,7) and (−1,−1) . Graph the parabola and the straight line on a coordinate plane. A similar method can be used to find the intersection points of a line and a circle. Example 2: Find the points of intersection between the line y=−3x and the circle x 2 + y 2 =3 . Substitute −3x for y in x 2 + y 2 =3 . x 2 + (−3x) 2 =3 Simplify. x 2 +9 x 2 =3 10 x 2 =3 x 2 = 3 10 Taking square roots, x=± 3 10 . Substitute the x -values in the linear equation to find the corresponding y -values. x= 3 10 ⇒y=−3(3 10) = −3 3 10 x=− 3 10 ⇒y=−3(− 3 10) = 3 3 10 Therefore, the points of intersection are (3 10 , − 3 3 10) and (− 3 10 , 3 3 10) . Graph the circle and the straight line on a coordinate plane. ...or a line and an ellipse. Example 3: Solve the system of equations y=−5 and x 2 9 + y 2 4 =1 . Substitute −5 for y in −5 . x 2 9 + (−5) 2 4 =1 Simplify. x 2 9 + (−5) 2 4 =1 4 x 2 36 + 9(25) 36 =1 4 x 2 +225=36 4 x 2 =−189 x 2 =− 189 4 Here we have a negative number as the square of a number. So, the two equations do not have real solutions. Graph the ellipse and the straight line on a coordinate plane. We can see that the two do not intersect. Related Topics: More Lessons for NYSED Regents Exam Math Worksheets High School Math based on the topics required for the Regents Exam conducted by NYSED. The following diagrams show the types of solutions for Linear-Quadratic Systems. Scroll down the page for more examples and solutions on how to solve Linear-Quadratic Systems. Linear Quadratic Systems Part 1 This lesson shows how to solve linear-quadratic systems Show Step-by-step Solutions Linear Quadratic Systems Part 2 This lesson shows how to solve linear - quadratic systems. Linear and Quadratic Systems Show Step-by-step Solutions Try the free Mathway calculator and problem solver below to practice various math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page. We work with substituting the value of x in a quadratic equation. Then we substitute the values of y in linear equation. A sample problem is solved, and two practice problems are provided. Students will solve linear quadratic systems for the solution set. Ten problems are provided. You will get another practice series with creating a solution set. Ten problems are provided. The concept of how to complete these types of exercises for the solution set is reviewed. A sample problem is solved and six practice problems are provided. Students will demonstrate their proficiency with the skills that we have worked on. Ten problems are provided. This is a great sheet to use a form of class review or introduction. Three problems are provided, and space is included for students to copy the correct answer when given. This worksheet focus on the algebraically approach to these types of exercises. A sample problem is solved, and two practice problems are provided. We focus on the algebraical approach some more on this sheet. Ten problems are provided. More practice on how to tackle quadratic systems. Ten problems are provided. The concept of how to solve these systems algebraically is reviewed. A sample problem is solved and six practice problems are provided. Students will demonstrate their proficiency with this series of skills. Ten problems are provided. A great way to review or introduce these skills and concepts. Three problems are provided, and space is included for students to copy the correct answer when given. If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. 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(-2, 4) (6, 12) Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 2 Solve algebraically. 1. y = x2 + 5x + 4 y = x 8 2. y = x2 + 8x + 11 y = x + 1 3. y = x2 - 4x + 12 y = 4x 4 4. y = x2 20 y = x 8 5. y = x2 - 7x 15 y = 3x + 6 6. y = x2 + 7x - 5 y = 2x + 9 7. y = x2 -5x 14 y = x + 2 8. y = x2 + 8x + 12 y = -3x 6 9. y = x2 - 6x - 20 y = -x - 6 10. y = x2 6x 9 y = x + 9 Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 2 ANSWERS 1. (2, -6) (-6, -14) 2. (-2, -1) (-5, -4) 3. (4, 12) (4, 12) 4. (-3, -11) (4, -4) 5. (3, 15) (7, 27) 6. (2, 13) (-7, -5) 7. (-2, 0) (8, 10) 8. (-2, 0) (-9, 21) 9. (-2, -4) (7, -13) 10. (-2, 7) (9, 18) Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 3 Solve algebraically. 1. y = x2 + 8x + 6 y = x 6 2. y = x2 + 7x + 10 y = x + 1 3. y = x2 - 7x + 14 y = 5x 6 4. y = x2 36 y = x 16 5. y = x2 - 5x 10 y = 2x + 2 6. y = x2 + 10x + 4 y = 3x - 6 7. y = x2 -8x 10 y = x + 8 8. y = x2 + 5x + 15 y = -5x 6 9. y = x2 - 4x + 8 y = -x + 2 10. y = x2 7x + 19 y = x + 4 Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 3 ANSWERS 1. (-3, -9) (-4, -10) 2. (-3, -2) (-3, -2) 3. (2, 4) (10, 44) 4. (-4, -20) (5, -11) 5. (3, 8) (4, 10) 6. (-2, -12) (-5, -21) 7. (-2, 6) (9, 17) 8. (-3, 9) (-7, 29) 9. (-2, 4) (-3, 5) 10. (3, 7) (5, 9) Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 4 Solve algebraically. 1. y = x2 + 7x + 3 y = x 5 2. y = x2 3x 9 y = x 5 3. y = x2 - 9x + 18 y = 4x 12 4. y = x2 20 y = x + 10 5. y = x2 + 8x + 15 y = -6x - 9 6. y = x2 - 3x - 6 y = -7x + 6 7. y = x2 - 4x 16 y = 5x + 6 8. y = x2 + 9x + 13 y = -x 11 9. y = x2 +7x + 5 y = x - 3 10. y = x2 7x + 8 y = x - 8 Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 4 ANSWERS 1. (-2, -7) (-4, -9) 2. (-2, -7) (2, -3) 3. (3, 0) (10, 28) 4. (-5, 5) (6, 16) 5. (-2, 3) (-12, 63) 6. (2, -8) (-6, 48) 7. (-2, -4) (11, 61) 8. (-4, -7) (-6, -5) 9. (-2, -5) (-4, -7) 10. (4, -4) (4, -4) Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 5 Solve algebraically. 1. y = x2 + 5x - 7 y = x + 5 2. y = x2 + 3x - 14 y = x - 2 3. y = x2 - 5x + 11 y = 4x 7 4. y = x2 - 9 y = 2x + 6 5. y = x2 - 7x + 22 y = 3x - 3 6. y = x2 + 12x + 9 y = 4x - 3 7. y = x2 -6x + 8 y = x - 4 8. y = x2 + 8x + 18 y = -6x 6 9. y = x2 - 2x + 2 y = -x + 8 10. y = x2 4x - 20 y = x - 6 Name: _____ Date _____ Tons of Free Math Worksheets at: www.mathworksheetsland.com Topic: Linear-Quadratic Systems - Worksheet 5 ANSWERS 1. (2, 4) (-6, -4) 2. (2, 0) (-6, -8) 3. (3, 5) (6, 17) 4. (-3, 0) (5, 16) 5. (5, 12) (5, 12) 6. (-2, -11) (-6, -27) 7. (3, -1) (4, 0) 8. (-2, 6) (-12, 66) 9. (-2, 10) (3, 11) 10. (2, -4) (7, 1) Topic: Linear-Quadratic Systems - Worksheet 1Solve algebraically.Topic: Linear-Quadratic Systems - Worksheet 1 ANSWERSTopic: Linear-Quadratic Systems - Worksheet 2Solve algebraically.Topic: Linear-Quadratic Systems - Worksheet 2 ANSWERSTopic: Linear-Quadratic Systems - Worksheet 3Solve algebraically.Topic: Linear-Quadratic Systems - Worksheet 3 ANSWERSTopic: Linear-Quadratic Systems - Worksheet 4Solve algebraically.Topic: Linear-Quadratic Systems - Worksheet 4 ANSWERSTopic: Linear-Quadratic Systems - Worksheet 5Solve algebraically.Topic: Linear-Quadratic Systems - Worksheet 5 ANSWERSPage 2Embed Size (px) 344 x 292429 x 357514 x 422599 x 4872.1 – Linear and Quadratic Equations. Linear Equations. 2.1 – Linear and Quadratic Equations. Quadratic Equations. A quadratic equation is written in the Standard Form , . where a , b , and c are real numbers and . Examples:. (standard form). 2.1 – Linear and Quadratic Equations. - PowerPoint PPT PresentationPowerPoint Presentation2.1 Linear and Quadratic EquationsLinear Equations2.1 Linear and Quadratic EquationsA quadratic equation is written in the Standard Form, Examples: (standard form)Quadratic EquationsZero Factor Property: If a and b are real numbers and if , Examples: then or . 2.1 Linear and Quadratic EquationsZero Factor Property: If a and b are real numbers and if , Examples: then or . 2.1 Linear and Quadratic EquationsSolving Quadratic Equations: 1) Write the equation in standard form.4) Solve each equation. 2) Factor the equation completely.3) Set each factor equal to 0.5) Check the solutions (in original equation). 2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.1 Linear and Quadratic Equations2.2 - FormulasExample 1:Using the given values, solve for the variable in each formula that was not assigned a value.Check:2.2 - FormulasExample 2:Volume of a PyramidLCD:32.2 - FormulasExample 3: Solve for the requested variable. Area of a Triangle solve for bLCD:22.2 - FormulasExample 4: Solve for the requested variable. Celsius to Fahrenheit solve for CLCD:52.2 - FormulasExample 6: Solve for the requested variable. Solve for v2.2 - FormulasExample 5: Solve for the requested variable. Solve for x2.3 - ApplicationsSimple InterestSimple Interest.Principal= Interest Rate Interest Rate is stated as a percent and converted to a decimal for calculation purposes..Time Time is stated in years or part of a year.61.25Simple Interest7%Find the simple interest on a five year loan of $875 at a rate of 7%..$875875.0.07$306.25.5.5.5306.252.3 - ApplicationsYou invest $8000 in two accounts and earn a total of $323 in interest from both accounts in one year. The interest rates on the accounts were 4.6% and 2.8%. How much was invested in each account?Total Interest = Account 1 + Account 2Account 1Account 2PrincipalInterest RateInterestx8000-xAccount 1: $5500Account 2: 8000 55002.3 - ApplicationsAccount 2: $2500x + 7x2.3 - ApplicationsIn a right triangle, the length of the longer leg is 7 more inches than the shorter leg. The length of the hypotenuse is 8 more inches than the length of the shorter leg. Find the length of all three sides.x + 82.3 - ApplicationsA family paid $26,250 as a down payment for a home. This represents 15% of the selling price. What is the price of the home?2.3 - ApplicationsSpecial Pairs of AnglesComplimentary angles: Two angles whose sum is 90. They are compliments of each other.Supplementary angles: Two angles whose sum is 180. They are supplements of each other. One angle is six more than five times the other angle. What are their measurements if the are supplements of each other?2.3 - ApplicationsA flower bed is in the shape of a triangle with one side twice the length of the shortest side, and the third side is 30 feet more than the length of the shortest side. Find the dimensions if the perimeter is 102 feet.x = the length of the shortest side2x = the length of the second sidex + 30 = the length of the third sidex2xx + 30 P = a + b + c102 = x + 2x + x + 30102 = 4x + 30102 30 = 4x + 30 3072 = 4x2.3 - ApplicationsThe length of a rectangle is 4 less than twice the width. The area of the rectangle is 70. Find the dimensions of the rectangle.2.3 - Applications35 mph40 mphTwo cars leave an airport at the same time. One is traveling due north at a rate of 40 miles per hour and the other is travelling due east at a rate of 35 miles per hour. When will the distance between the two cars be 110 miles?110 mi.It takes Karen 3 hours to row a boat 30 kilometers upstream in a river. If the current was 4 kilometers per hour, how fast would she row in still water?Rate upstream:Rate in still water:How long would it take her to row 30 kilometers in still water? How long would it take her to row 30 kilometers downstream? 2.3 - Applications2.4 Linear Inequalities in One VariableAn inequality is a statement that contains one of the symbols: < , >, or .EquationsInequalitiesx = 312 = 7 3yx > 312 7 3y A solution of an inequality is a value of the variable that makes the inequality a true statement.The solution set of an inequality is the set of all solutions.342.4 Linear Inequalities in One Variable352.4 Linear Inequalities in One Variable36ExampleGraph each set on a number line and then write it in interval notation. a.b.c.2.4 Linear Inequalities in One Variable37Addition Property of InequalityIf a, b, and c are real numbers, thena < b and a + c < b + c a > b and a + c > b + c are equivalent inequalities.Also,If a, b, and c are real numbers, thena < b and a - c < b - c a > b and a - c > b - c are equivalent inequalities.2.4 Linear Inequalities in One Variable38ExampleSolve: Graph the solution set.[2.4 Linear Inequalities in One Variable39Multiplication Property of InequalityIf a, b, and c are real numbers, and c is positive, thena < b and ac < bc are equivalent inequalities.If a, b, and c are real numbers, and c is negative, thena < b and ac > bcare equivalent inequalities.2.4 Linear Inequalities in One VariableThe direction of the inequality sign must change when multiplying or dividing by a negative value.40Solve: Graph the solution set.The inequality symbol is reversed since we divided by a negative number.(Example2.4 Linear Inequalities in One Variable41Solve: 3x + 9 5(x 1). Graph the solution set.3x + 9 5x 53x 3x + 9 5x 3x 59 2x 514 2x7 x9 + 5 2x 5 + 53x + 9 5(x 1)x 7[2.4 Linear Inequalities in One Variable42ExampleSolve: 7(x 2) + x > 4(5 x) 12. Graph the solution set.7(x 2) + x > 4(5 x) 127x 14 + x > 20 + 4x 128x 14 > 4x 328x 4x 14 > 4x 4x 324x 14 > 324x 14 + 14 > 32 + 144x > 18x > 4.5(2.4 Linear Inequalities in One Variable43Intersection of SetsThe solution set of a compound inequality formed with and is the intersection of the individual solution sets.2.4 Linear Inequalities in One VariableCompound Inequalities44ExampleFind the intersection of: The numbers 4 and 6 are in both sets. The intersection is {4, 6}.2.4 Linear Inequalities in One VariableCompound Inequalities45Solve and graph the solution for x + 4 > 0 and 4x > 0.ExampleFirst, solve each inequality separately.x + 4 > 0x > 44x > 0x > 0and((0,)2.4 Linear Inequalities in One VariableCompound Inequalities46Example0 4(5 x) < 80 20 4x < 8 0 20 20 20 4x < 8 20 20 4x < 12 5 x > 3 Remember that the sign direction changes when you divide by a number < 0![(3,5]2.4 Linear Inequalities in One Variable345Compound Inequalities47Example Alternate Method0 4(5 x) 0 20 4x 0 20 20 20 4x 20 4x 5 x ([(3,5]2.4 Linear Inequalities in One Variable3454(5 x) < 820 4x < 8 20 20 4x < 8 20 4x < 12 x > 3 0 4(5 x) < 8Dividing by negative:change signDividing by negative:change signCompound Inequalities48The solution set of a compound inequality formed with or is the union of the individual solution sets.Union of Sets2.4 Linear Inequalities in One VariableCompound Inequalities49Find the union of: ExampleThe numbers that are in either set are {2, 3, 4, 5, 6, 8}.This set is the union. 2.4 Linear Inequalities in One VariableCompound Inequalities50Example: Solve and graph the solution for 5(x 1) 5 or 5 x < 115(x 1) 55x 5 55x 0x 05 x < 11x < 6x > 6or(6,)2.4 Linear Inequalities in One VariableCompound Inequalities51Example:or2.4 Linear Inequalities in One VariableCompound Inequalities52Page 3

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