

Algebra 1
Unit 9 Review

Solve the following quadratic equations by factoring.

1.)

$$3x^2 + 16x + 5 = 0$$

$$x^2 + 16x + 15 = 0 \quad a=3$$

$$(x+15)(x+1) = 0 \quad 15, 1$$

$$(x+5)(3x+1) = 0$$

$$x = -5$$

$$x = -\frac{1}{3}$$

2.)

$$6b^2 - 11b - 2 = 0$$

$$b^2 - 11b - 12 = 0 \quad a=6$$

$$(b-12)(b+1) = 0 \quad -12, 1$$

$$(b-2)(6b+1) = 0$$

$$b = 2$$

$$b = -\frac{1}{6}$$

Solve the quadratic equations by taking the square root.

3.)

$$2x^2 - 8 = 0$$

$$\frac{2x^2}{2} = \frac{8}{2}$$

$$\sqrt{x^2} = \sqrt{4}$$

$$x = \pm 2$$

4.)

$$5x^2 + 15 = 0$$

$$\frac{5x^2}{5} = \frac{-15}{5}$$

$$\sqrt{x^2} = \sqrt{-3}$$

No real solution

Solve the quadratic equations by completing the square.

5.)

$$x^2 + 14x + 13 = 0$$

$$\frac{14}{2} = 7^2 = 49$$

$$x^2 + 14x + 49 = -13 + 49$$

$$\sqrt{(x+7)^2} = \sqrt{36}$$

$$x+7 = \pm 6$$

$$x = -7 \pm 6$$

$$x = -1$$

$$x = -13$$

6.)

$$x^2 + 2x - 14 = 0$$

$$\frac{2}{2} = 1^2 = 1$$

$$x^2 + 2x + 1 = 14 + 1$$

$$\sqrt{(x+1)^2} = \sqrt{15}$$

$$x+1 = \pm \sqrt{15}$$

$$x = -1 \pm \sqrt{15}$$

$$x \approx 2.87$$

$$x \approx -4.87$$

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Lingjun Ying



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Algebra 1 McDougal Littell Incorporated, Ron Larson, 2003 *Algebra 1* Collins Publishers Staff, William Collins, Gilbert J. Cuevas, Russell J. Foster, Gordon Staff, Moore-Harris, Rath, William L. Swart, Winters, 1998 **Algebra 1** McDougal Littell Incorporated, 2004 **Algebra 1** Foster, McGraw-Hill/Glencoe, 1996-04-08 A beginning algebra textbook **Algebra 1**

Workbook for Dummies Richard S Hammond, 2019-04-06 After becoming a math teacher and math author I notice that most students lack the basic skills in Math This reason leads students to face many difficulties in learning Math not only in high school but also university To help students in mastering their basic Math skills we have worked through a workbook series called Algebra 1 Workbook for Dummies Series This book series is designed to help students master their basics skill in Algebra 1 Algebra 1 Workbook for Dummies Quadratic Equations serves as a concise guide in quadratic equations This book is written in detail about quadratic equations We begin the first chapter of this book with the definition of quadratic equations In this part we want to make sure that the readers comprehend well about the definition before going deep into how to solve quadratic equations In the second chapter of this book we listed many possible ways on how to solve a quadratic equation such as Factoring Method Completing Square Method Using Discriminant to Solve a Quadratic Equation Solve a Quadratic Equation in Case $a \neq 0$ or $a = 0$ Moreover to dive into the higher level of Math we also include the most famous theorem that is related to the sum and the product of the roots of equations This theorem is known as Vieta's theorem We decide to include this part in the third chapter of this book to help readers get more interests in quadratic equations The last chapter of this book is about the application of quadratic equations like how to solve a system of equations or a biquadratic equation by using a quadratic equation We hope this book serves as the best resource in learning Algebra 1 especially quadratic equations Richard S Hammond *Algebra 1* McDougal-Littell Publishing Staff, McDougal Littell, 2007-07-31

Algebra I Unit 10 (RES) Second Edition Responsive Education Solutions Staff, 2020-08 *Algebra 1* Holt McDougal, Edward B. Burger, 2009-12-31 Expressions equations and functions Properties of real numbers Solving linear equations Graphing linear equations and functions Writing linear equations Solving and graphing linear inequalities Systems of equations and inequalities Exponents and exponential functions Polynomials and factoring Quadratic equations and functions Radicals and geometry connections Rational equations and functions Probability and data analysis **Algebra 1**, 1991 **Algebra 1A 110** Starline Press, 2011-05-27 Starline Press Curriculum Description Unit 10 of 10 Algebra 1 A Units Mathematics 1A101 1A110 This course is designed to allow students to confront Algebra at a slower more remedial pace We have broken Algebra 1 into two separate sections with more descriptions as well as examples This course is intended for students who have not taken an Algebra class in some time The student will be able to work at a speed more conducive to one who is re encountering these theories and concepts after a long absence Answer Score Key Sold Separately Welcome to Starline Press an Independent Learning Curriculum 3rd 12th Grade Math English Social Studies and Science High School

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