Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

1. Find the real zeros of $f(x) = 2x^2 + 15x + 18$.

$$0 = 2x^2 + 15x + 18$$
$$0 = (2x + 3)(x + 6)$$
$$x = -6 \text{ or } -\frac{3}{2}$$

2. Solve $245x^2 - 405 = 0$.

$$49x^2 - 81 = 0$$
$$(7x + 9)(7x - 4) = 0$$
$$x = \pm\frac{9}{7}$$

3. Solve $9x^2 - 10x = 2x + 5$.

$$9x^2 - 12x - 5 = 0$$
$$(3x - 5)(3x + 1) = 0$$
$$x = -\frac{1}{3} \text{ or } \frac{5}{3}$$

4. A box has a base that measures 3 inches by 5 inches, and a height of 11 inches. Increasing each dimension of the base by the same amount causes the volume of the box to increase by 528 cubic inches.

   a. Using x as the amount that each dimension of the base is increased by, write an expression for the volume of the box. let x be the increase in each dimension of the base in inches.
   $$11(3 + x)(5 + x)$$

   b. Use the original measurements and the expression you wrote in part (a) to write an equation that can be used to find the amount by which each dimension of the base increased.
   $$(3)(5)(11) + 528 = 11(3 + x)(5 + x)$$

   c. Solve the equation in part (b) and interpret the solutions in the context of the problem.
   $$3 \cdot 5 \cdot 11 + 528 = 11(x + 1)(x + 5)$$
   $$3 \cdot 5 \cdot 11 + 528 = (x + 3)(x + 5)$$
   $$165 + 48 = x^2 + 8x + 15$$
   $$x^2 + 8x - 48 = 0$$
   $$(x + 12)(x - 4) = 0$$
   $$x = -12 \text{ or } 4$$
   each dimension of the base is increased by 4 in.

Part B: Complete each problem.

5. Consider $9x^2 - 12x + 98 = -50$.

   a. Determine how many and what type of solutions the equation has.
   $$b^2 - 4ac \qquad (-12)^2 - 4(9)(98) = 144 - (36)(98) < 0$$
   2 imaginary solutions

   b. Find those solutions by completing the square.
   $$9x^2 - 12x + 98 = -50$$
   $$9x^2 - 12x = -148$$
   $$x^2 - \tfrac{4}{3}x = \tfrac{-148}{9}$$
   $$x^2 - \tfrac{4}{3}x + \tfrac{4}{9} = \tfrac{-148}{9} + \tfrac{4}{9}$$
   $$(x - \tfrac{2}{3})^2 = -\tfrac{144}{9}$$
   $$x - \tfrac{2}{3} = \pm\tfrac{12}{3}i$$
   $$x = \tfrac{2}{3} \pm 4i$$

6. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 88 feet per second.

   a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.
   $$h(t) = -16t^2 + 16t + h_o$$
   $$L(t) = -16t^2 + 88t + 168$$
   $$t = \frac{-88 \pm \sqrt{88^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$
   the rocket landed after 7 seconds

   b. Could the factoring method have been used to answer the question above? Explain.
   Yes, because solutions are rational

For HW, complete Part 2 of the review packet.

Algebra 1 Unit Test Answers

David Baker

Algebra 1 Unit Test Answers:

Key Maths GCSE David Baker,Paul Hogan,Chris Humble,Barbara Job,Peter Sherran,2002 Test questions are provided for each chapter of this textbook together with detailed mark schemes to make assessment easy Two versions of each question are provided One allows pupils to write their answers in the spaces provided and the other requires pupils to have separate writing paper Questions can be grouped according to needs Master grids are provided to cut and paste tests together in a consistent format to use the resource in any order Chapter tests can be grouped to form a module test after chapters End of chapter examinations can also be produced in this way A free non calculator supplement organized by unit chapter is also included in this resource **Key Maths GCSE** , **Basic Algebra** Konvalina,1983-04 **Solutions Support Book 7** David Baker,2005 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format *Algebra Refresher* Teaching Machines, Inc,1962 Cliffsnotes TExES Math 4-8 (115) and Math 7-12 (235) Sandra Luna McCune,2020-09-15 Preparation and instruction book providing test taking strategies and reviews of all test topics Includes two practice tests for both the TExES Math 4 8 115 and Math 7 12 235 exams including answers and complete explanations A Program in Contemporary Algebra: Sets, numbers, and the language of algebra Ralph T. Heimer,Frank Kocher,John J. Lottes,1963 **Algebra for College Students** Nancy Myers,1989-01-01 Algebra Text Robert H. Alwin,Robert D. Hackworth,Joseph W. Howland,1974 A Program in Contemporary Algebra: Equations and inequalities in two variables Ralph T. Heimer,Frank Kocher,John J. Lottes,1963 **Introductory Algebra** Thomas J. McHale,Allan A. Christenson,Keith J. Roberts,1977 *An Investigation of the Written Examination as a Measure of Achievement with Particular Reference to General Science* Joseph Bardy,1923 **The Civil service competitor** ,1891 **Circular of Information** University of Chicago,1905 Annual Register University of Chicago,1899 **Work Book in Algebra** Garry Cleveland Myers,Elizabeth J. Thomas,Kimber M. Persing,1930 Intermediate Algebra Arthur H. Heywood,1975 El-Hi Textbooks & Serials in Print, 2005 ,2005

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