

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

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

$$0 = 2x^2 + 15x + 18$$

$$0 = (2x + 3)(x + 6)$$

$$x = -\frac{3}{2} \text{ or } -6$$

2. Solve $9x^2 - 10x + 5 = 0$.

$$9x^2 - 10x - 5 = 0$$

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

$$x = \frac{5}{3} \text{ or } -\frac{1}{3}$$

3. 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.

$$165 + 528 = 11(x+3)(x+5)$$

$$693 = 11(x+3)(x+5)$$

$$63 = (x+3)(x+5)$$

$$14 = x^2 + 8x + 15$$

$$x^2 + 8x - 4 = 0$$

$$(x+12)(x-4) = 0$$

$$x = -12 \text{ or } 4$$

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

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

- a. Determine how many and what type of solutions the equation has.

$$b^2 - 4ac = (-12)^2 - 4(9)(9) = 144 - (36)(9) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

$$9x^2 - 12x + 9 = -50$$

$$9x^2 - 12x = -59$$

$$x^2 - \frac{4}{3}x = -\frac{59}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{145}}{3}$$

$$x^2 - \frac{4}{3}x + \frac{4}{9} = -\frac{59}{9} + \frac{4}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{55}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{145}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{145}}{3}$$

5. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 68 feet per second.

- a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.

$$h(t) = -16t^2 + 68t + 168$$

$$t = \frac{-68 \pm \sqrt{68^2 - 4(-16)(168)}}{2(-16)}$$

$$= -1.5 \text{ or } 7$$

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 Cumulative Review Answer Key

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Algebra 1 Foster, McGraw-Hill/Glencoe, 1996-04-08 A beginning algebra textbook **Glencoe Algebra 1** Kenneth J. Travers, 1990 **Algebra 1** McDougal Littell Incorporated, 2003 *Algebra 1 Chapter 12 Resource Masters* McGraw-Hill Staff, 2002-04 Algebra 1 Chapter 9 Resource Masters McGraw-Hill Staff, 2002-04 **McDougal Littell Algebra 1**, 2000-02-17 **Algebra: Its Elements and Structure, Teacher's Ed** John Houston Banks, Max A. Sobel, William Colin Walsh, 1965 Introductory and Intermediate Algebra Margaret L. Lial, John Hornsby, Terry McGinnis, 2001-11 The Lial Hornsby developmental mathematics paperback series has helped thousands of students succeed in math In keeping with its proven track record this revision includes a sharp new design many new exercises and applications and several new features to enhance student learning Among the features added or revised include a new Study Skills Workbook a Diagnostic Pretest Chapter Openers Test Your Word Power Focus on Real Data Applications and increased use of the authors six step problem solving process Addison-Wesley Informal Geometry, 1992 Understanding Elementary Algebra Arthur Goodman, Lewis Hirsch, 1990 **Instructor's Manual with Test Bank to Accompany Understanding Intermediate Algebra, Third Edition, and Understanding Algebra for College Students, Third Edition** Lewis Hirsch, 1994 **Intermediate Algebra** Jack Barker, James Rogers, James Van Dyke, 1992 The book is a text that serves as a review of elementary algebra together with a study of the traditional topics of intermediate algebra It is designed for students at any level so that they can gain the skills necessary to fulfill competency requirements achieve adequate scores on placement exams for entrance to certain professional schools prepare for technical mathematics courses prepare for problem solving in applied courses and complete prerequisites for college algebra or business courses Pref **Algebra and Trigonometry** John W. Coburn, 2010

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