200		

2. Selve 245x1 - 405 × 0.

414 - 3120

Y= 2 3

(7x+4)/7x-4)=0

Date: Period: Algebra 2 H

# Station 3: Solving Quadratic Equations

# Part A: Complete each problem by FACTORING.

Find the real zeros of f(x) = 2x2 + 15x + 18.

3. Solve 
$$9x^{q} - 10x + 2x + 5$$
.

- 4. A box has a base that measures 3 inches by 5 inches, and a height of 11 inches, increasing each dimension of the hase by the same amount causes the volume of the box to increase by \$28 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 interest in each dimension of the have in inches.
  - 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) +526 = 11()(4)(6+x) c. Solve the equation in part (b) and interpret the solutions in the context of the problem.

each limension of the

#### Part B: Complete each problem.

- 5. Consider 9x 12x + 98 = -50.
  - a. Determine how many and what type of solutions the equation has.

h. Find those solutions by completing the square.

b. Find those solutions by completing the square.

$$\frac{q_{X^{1}-1}x_{X}+q_{X^{2}-5}}{q_{X^{1}-\frac{1}{2}X}} = \frac{1}{2} \frac{$$

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

2 imaginary eductions

b. Could the factoring method have been used to answer the question above? Explain.

Yes because solutions are racional

# **Algebra Nation Answers Section 5 Test**

**Jonathan Suarez** 

### **Algebra Nation Answers Section 5 Test:**

College Algebra Richard N. Aufmann, Vernon C. Barker, Richard Nation, 2001-06-06 The Fourth Edition of College Algebra continues to promote student success by engaging students in mathematics thus helping them see the dynamic link between concepts and applications The authors hallmark approach the Aufmann Interactive Method encourages students to interact with math by presenting an annotated example then guiding students with a Try Exercise and finally presenting a worked out solution for immediate reinforcement of the concept A wealth of new features designed to enhance learning include more in text guidance as well as special web based resources and an unparalleled Instructor's Annotated Edition facilitates teaching New An Instructor's Annotated Edition unlike any other offered for this course features reduced student text pages with special instructor resources in the margins teaching tips extra examples ideas for reinforcing concepts discussion suggestions highlighted vocabulary and symbols challenge problems guizzes suggested assignments and references to transparencies that may be found both in the Instructor's Resource Manual and on the web site New Side by Side Solutions to examples pair an algebraic solution and a graphical representation to accommodate different learning styles New Technology dependent modeling sections introduce the idea of mathematical modeling of data through linear quadratic exponential logarithmic and logistic regression New Integrated web resources include selected Take Note boxes identified by a special web icon which direct students to an interactive example or a downloadable file on the web site These special resources can be used by instructors for presentation purposes or can be assigned tostudents to help them visualize a concept New Concept Lists now prominently feature all the major topics at the beginning of each section preparing students for the concepts to follow A wide range of applications exercise sets and supplemental exercises many involving real data encourage problem solving skill building group work writing and manipulation of graphing calculators Exploring Concepts with Technology a special end of chapter feature expands on ideas introduced in the text by using technology to investigate extended mathematical applications or topics Projects at the end of each exercise set are designed to encourage students or groups of students to research and write about mathematics and its applications Additional Projects are included in the Instructor's Resource Manual and on the book's web site Topics for Discussion conceptual exercises included at the end of each section can be used for discussion or writing assignments Take Note and Math Matters formerly called Point of Interest margin notes alert students about interesting aspects of math history applications and points that require special attention

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Unveiling the Magic of Words: A Review of "Algebra Nation Answers Section 5 Test"

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