

Chapter 1 Quiz 2

Sections 1.4 through 1.6

Do you know NOW?

Solve each equation. Check your answers.

1. $2x - 3 = 2 + 5$

2. $\frac{1}{2}(x + 4) = x + 3$

3. Write an inequality for each problem. Then solve the equation. Make at least one more than for x and less than for y . Remember that these phrases mean, x is less than y . The rest of the page is for these problems.

Solve each inequality. Graph the solution.

4. $2x + 3 < 2 + 4x + 5$

5. $-3x + 12 \text{ and } 2 - 3x > 2$

6. The city's system of water treatment has two new filters. The first filter will cost \$100,000 and the second filter will cost \$150,000. The city's system of water treatment has two new filters. The first filter will cost \$100,000 and the second filter will cost \$150,000. The city's system of water treatment has two new filters. The first filter will cost \$100,000 and the second filter will cost \$150,000.

Solve each equation. Check for extraneous solutions.

7. $2x + 3 = 4 + 5x$

8. $3x + 2 = 2x + 1$

9. Solve the inequality $\frac{1}{2}(x + 4) < 2 + 3$ and graph the solution.

10. In a class of 20 students, 12 of the students are girls and 8 are boys. If the class is divided into two groups, how many girls and boys will be in each group?

Do you UNDERSTAND?

11. **Writing** Suppose the sum of three consecutive even integers is 60. How can you find the three numbers?

12. **Compare and Contrast** How do the solutions to $x + 1 < 2$ and $x + 1 < 3$ differ?

Chapter 1 Test

Do you know NOW?

Identify a pattern and find the next three numbers in the pattern.

1. $-4, -1, 2, 5$

2. $1, 3, 5, 7, 9, 11$

3. Simplify each expression by removing the parentheses and combining like terms.

a. $4(-3 + 2) - 5(1 - 2)$

b. $-2(4 + 3) + 1(5)$

c. $-3(1 - 2)$

d. $-4(2 - 3)$

Evaluate the expression for the given value of the variable.

4. $x^2 + 4x - 3$, $x = 5$

5. $\frac{3x + 2}{x - 1}$, $x = 2$

6. The expression $15.00 + 0.40x$ models the daily cost in dollars of renting a car. In the expression, x represents the number of miles the car is driven. What is the cost of renting a car for a day when the car is driven 100 miles?

Solve each equation.

7. $3x + 12 = 3x + 24$

8. $3(x + 2) = 18$

Solve each equation for x . State any restrictions on the variables.

9. $3x + 4 = 2x$

10. $\frac{1}{2}(x + 4) = 3 + x$

Solve each formula for the indicated variable.

11. $P = \frac{1}{2}(x_1 + x_2)$, for x_2

12. $P = 2\pi r$, for r

Algebra 1 Chapter 9 Polynomials And Factoring Prentice Hall Mathematics

**John Tobey, Jr., Jeffrey Slater, Bob
Martin**



Algebra 1 Chapter 9 Polynomials And Factoring Prentice Hall Mathematics:

Integer and Polynomial Algebra Kenneth R. Davidson, Matthew Satriano, 2023-10-30 This book is a concrete introduction to abstract algebra and number theory Starting from the basics it develops the rich parallels between the integers and polynomials covering topics such as Unique Factorization arithmetic over quadratic number fields the RSA encryption scheme and finite fields In addition to introducing students to the rigorous foundations of mathematical proofs the authors cover several specialized topics giving proofs of the Fundamental Theorem of Algebra the transcendental of e and Quadratic Reciprocity Law The book is aimed at incoming undergraduate students with a strong passion for mathematics

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Introduction to Numerical Analysis J. Stoer, R. Bulirsch, 2013-03-09 On the occasion of this new edition the text was enlarged by several new sections Two sections on B splines and their computation were added to the chapter on spline functions Due to their special properties their flexibility and the availability of well tested programs for their computation B splines play an important role in many applications Also the authors followed suggestions by many readers to supplement the chapter on elimination methods with a section dealing with the solution of large sparse systems of linear equations Even though such systems are usually solved by iterative methods the realm of elimination methods has been widely extended due

to powerful techniques for handling sparse matrices We will explain some of these techniques in connection with the Cholesky algorithm for solving positive definite linear systems The chapter on eigenvalue problems was enlarged by a section on the Lanczos algorithm the sections on the LR and QR algorithm were rewritten and now contain a description of implicit shift techniques In order to some extent take into account the progress in the area of ordinary differential equations a new section on implicit differential equations and differential algebraic systems was added and the section on stiff differential equations was updated by describing further methods to solve such equations

Algebra for College Students Robert Blitzer, 1998 This book provides comprehensive coverage of Intermediate Algebra plus coverage of polynomial and rational functions sequences probability and mathematical induction to prepare readers students for college algebra precalculus and other service math courses The material is presented in an interesting and inviting format that utilizes real world data and encourages modeling critical thinking and problem solving

Algebra and Trigonometry Vincent K. Smith, Linda L. Exley, Bumgarner, 1993 Carefully developed by experienced successful authors using extensive reviews and professional focus groups this highly accurate book prepares readers for calculus The streamlined writing style and abundance of problem solving material provide a pedagogically rich learning environment that emphasizes correct mathematics while avoiding unnecessary jargon

Student Solutions Manual K. Elayn Martin-Gay, 2004-05 The Student Solutions Manual contains detailed step by step solutions to odd numbered section exercises solutions to every odd and even Mental Math exercise solutions to odd numbered Calculator Exploration exercises and solutions to every odd and even exercise found in the Chapter Reviews and Chapter Tests

Algebra Alvie M. Welchons, William R. Krickenberger, Helen R. Pearson, 1962

Mathematics in Architecture Mario Salvadori, 1968

Intermediate Algebra John Tobey, Jr., Jeffrey Slater, Bob Martin, 2005-05

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