

Algebra 2: Chapter 4 Practice Test

Directions: Read each question and then complete according to the instructions. Show all of your work and circle your answer in order to receive full credit. Make sure to answer all parts of the question.

1. $\begin{bmatrix} 4 & 7 \\ -2 & 1 \end{bmatrix} + \begin{bmatrix} -9 & 3 \\ 6 & 0 \end{bmatrix} =$

2. Find the determinant of $\begin{bmatrix} 2 & 3 & 0 \\ -1 & 1 & 0 \\ 4 & 2 & 1 \end{bmatrix}$

3. A system of equations has a unique solution if the determinant of the coefficient matrix is 7.

4. Solve the system using inverse matrices (i.e. use the formula: $X = A^{-1}B$).

$$\begin{cases} 2x - y = 5 \\ x + 4y = 7 \end{cases}$$

5. True or false: To add matrices, they must have the same dimension.

6. Use Cramer's Rule to solve the system:

$$\begin{cases} -2x + 7y = 19 \\ x + 3y = 10 \end{cases}$$

Algebra 2 Chapter 4 Test

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Algebra 2 Chapter 4 Test:

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Predicting Breeding Values with Applications in Forest Tree Improvement T.L. White,G.R. Hodge,2013-03-09 In most breeding programs of plant and animal species genetic data such as data from field progeny tests are used to rank parents and help choose candidates for selection In general all selection processes first rank the candidates using some function of the observed data and then choose as the selected portion those candidates with the largest or smallest values of that function To make maximum progress from selection it is necessary to use a function of the data that results in the candidates being ranked as closely as possible to the true but always unknown ranking Very often the observed data on various candidates are messy and unbalanced and this complicates the process of developing precise and accurate rankings For example for any given candidate there may be data on that candidate and its siblings growing in several field tests of different ages Also there may be performance data on siblings ancestors or other relatives from greenhouse laboratory or other field tests In addition data on different candidates may differ drastically in terms of quality and quantity available and may come from varied relatives Genetic improvement programs which make most effective use of these varied messy unbalanced and ancestral data will maximize progress from all stages of selection In this regard there are two analytical techniques best linear prediction BLP and best linear unbiased prediction BLUP which are quite well suited to predicting genetic values from a wide variety of sources ages qualities and quantities of data *Elementary Algebra* Charles P. McKeague,2014-05-10 Elementary Algebra Third Edition focuses on the basic principles operations and approaches involved in elementary algebra The book first ponders on the basics linear equations and inequalities and graphing and linear systems Discussions focus on the elimination method solving linear systems by graphing word problems addition property of equality solving linear equations linear inequalities addition and subtraction of real numbers and properties of real numbers The text then takes a look at exponents and polynomials factoring and rational expressions Topics include reducing rational expressions to lowest terms addition and subtraction of rational expressions factoring integers quadratic equations greatest

common factor and factoring by grouping multiplication with exponents and addition and subtraction of polynomials The manuscript examines more quadratic equations and roots and radicals including complex solutions to quadratic equations completing the square graphing parabolas properties of radicals and multiplication and division of radicals The publication is a dependable reference for students and researchers interested in elementary algebra **Key Maths**, 2002 These highly acclaimed resources are now available in the traditional file and a new interactive CD ROM format using ExamPro Technology for Year 8 **Beginning and Intermediate Algebra** James Streeter, Donald Hutchison, Streeter James, Hutchison Donald, Barry Bergman, Stefan Baratto, 2004 **Math, Grade 1** Thomas Richards, Marjorie Diggs-Freeman, 2012-10-22 Spectrum Math helps students apply essential math skills to everyday life The lessons perfect for students in grade 1 strengthen math skills by focusing on counting to 100 telling time place value greater than and less than and more The variety of *The ACT For Dummies* Michelle Rose Gilman, Veronica Saydak, Suzee Vlk, 2006-02-10 Boost your test taking skills and beat the clock Prepare for the ACT quickly and painlessly and maximize yourscore Are you one of the millions of students taking the ACT Have nofear This friendly guide gives you the competitive edge by fullypreparing you for every section of the ACT including the optionalwriting test You get two complete practice tests plus samplequestions all updated along with proven test takingstrategies to improve your score Discover how to Study for each section Stay focused during the test Manage your time wisely Make smart guesses Spot test traps and tricks **Beginning Algebra** Charles P. McKeague, 2014-05-10 Beginning Algebra A Text Workbook Second Edition focuses on the principles operations and approaches involved in algebra The publication first elaborates on the basics linear equations and inequalities and graphing and linear systems Discussions focus on solving linear systems by graphing elimination method graphing ordered pairs and straight lines linear and compound inequalities addition and subtraction of real numbers and properties of real numbers The text then examines exponents and polynomials factoring and rational expressions Topics include multiplication and division of rational expressions equations involving rational expressions dividing a polynomial by a polynomial factoring trinomials greatest common factor operations with monomials addition and subtraction of polynomials and binomial squares and other special products The book takes a look at more quadratic equations and roots and radicals including multiplication and division of radicals equations involving radicals quadratic formula complex solutions to quadratic equations and graphing parabolas The publication is a dependable reference for students and researchers interested in algebra **The Secrets of Picking a College (and Getting In!)** Lynn F. Jacobs, Jeremy S. Hyman, Jeffrey Durso-Finley, Jonah T. Hyman, 2015-09-28 Two award winning professors a former admissions officer at a major university now a counselor at a prestigious high school and a gifted high school senior now in the throes of the college admissions process himself team up to offer you over 600 tips techniques and strategies to help you get in to the college of your choice Comprehensive yet easy to read this book will teach you How to size up the colleges you re considering and come up with a coherent list What are college nights college fairs and

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