

ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

1. Find the difference of the polynomials.

$$(3x^2 - 2xy + y^2) - (-5x^2 + 6xy - y^2)$$

- a. $2x^2 - 3xy$
- b. $8x^2 - 11xy$
- c. $2x^2 - 3xy + 2y$
- d. $8x^2 - 8xy + 2y^2$

3. Find the product.

$$(5x - 3y)(6x + y)$$

- a. $30x^2 + 23xy + 3y^2$
- b. $30x^2 - 13xy - 3y^2$
- c. $35x - xy - 4y^2$
- d. $15x^2 - 23xy - 3y^2$

5. What property is represented below?

$$6 \cdot (3 \cdot 2) = (3 \cdot 2) \cdot 6$$

- a. commutative property
- b. identity property
- c. inverse property
- d. associative property

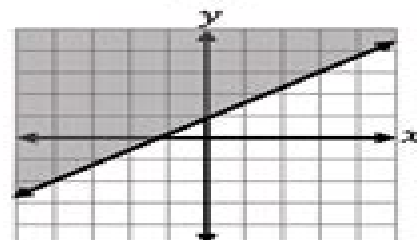
7. Find the roots of the quadratic function.

$$f(x) = 6x^2 - 5x - 2$$

- a. $x = 6; x = -2$
- b. $x = \frac{5 \pm \sqrt{13}}{2}$
- c. $x = 1 \pm \sqrt{73}$
- d. $x = \frac{5 \pm \sqrt{73}}{12}$

2. Which inequality best represents the graph?

- a. $y < \frac{3}{2}x + 1$
- b. $y \leq \frac{3}{2}x + 1$
- c. $y \geq \frac{3}{2}x + 1$
- d. $y < -\frac{3}{2}x + 1$



4. Jeffrey bought a collectable baseball card for \$12. If the value of the card appreciated by 9.4% each year, how much will the card be worth in 7 years?

- a. \$22.51
- b. \$112.80
- c. \$1,241.06
- d. \$39.27

6. Evaluate the expression when $x = 2$ and $y = -3$.

$$3y^2 - 2(5x + 3) - 1$$

- a. 0
- b. -3
- c. 10
- d. -4

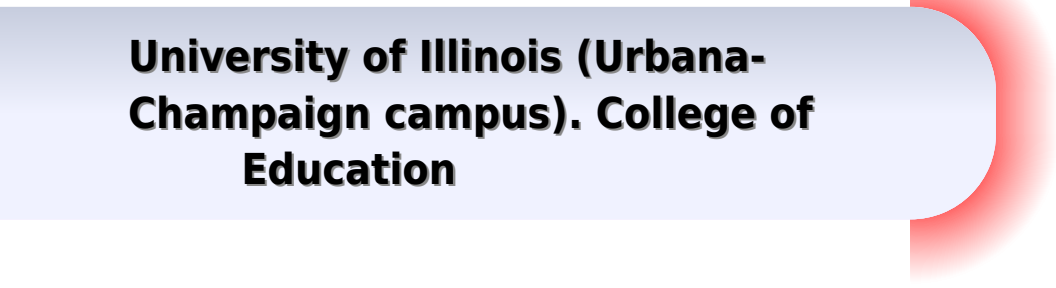
8. Find the solution to the system of linear equations below.

$$\begin{aligned} 6x - 5y &= 1 \\ y &= 2x - 1 \end{aligned}$$

- a. $(-1, 3)$
- b. $(1, 1)$
- c. $(1, 2)$
- d. $(0, 2)$

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**University of Illinois (Urbana-
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The Pearson Guide to MCA Entrance Examinations Thorpe, *Algebra-1: Course in Mathematics for the IIT-JEE and Other Engineering Entrance Examinations* , Prentice Hall New York Integrated Algebra Exam A. Rose Primiani,2008

The Pearson Guide to Quantitative Aptitude for CAT 2/e Sinha,2010 The Pearson Guide to Quantitative Aptitude for CAT 2 e has everything you need to secure a top score in the quantitative aptitude papers of the CAT and other MBA entrance examinations Written in a student friendly style this book explains concepts in a concise manner and includes numerous examples and worked out problems It also contains ample practice problems scientifically designed and arranged in four levels in an increasing order of difficulty The text also contains a chapter on Vedic mathematics which provides unique time saving and easy techniques for complex calculations **Machine Learning in Medicine** Ton J. Cleophas,Aeilko H.

Zwinderman,2013-11-26 Machine learning is concerned with the analysis of large data and multiple variables It is also often more sensitive than traditional statistical methods to analyze small data The first and second volumes reviewed subjects like optimal scaling neural networks factor analysis partial least squares discriminant analysis canonical analysis fuzzy modeling various clustering models support vector machines Bayesian networks discrete wavelet analysis association rule learning anomaly detection and correspondence analysis This third volume addresses more advanced methods and includes subjects like evolutionary programming stochastic methods complex sampling optional binning Newton s methods decision trees and other subjects Both the theoretical bases and the step by step analyses are described for the benefit of non mathematical readers Each chapter can be studied without the need to consult other chapters Traditional statistical tests are sometimes priors to machine learning methods and they are also sometimes used as contrast tests To those wishing to obtain more knowledge of them we recommend to additionally study 1 Statistics Applied to Clinical Studies 5th Edition 2012 2 SPSS for Starters Part One and Two 2012 and 3 Statistical Analysis of Clinical Data on a Pocket Calculator Part One and Two 2012 written by the same authors and edited by Springer New York **The American Mathematical Monthly** ,1924 Includes section Recent publications **IBM SPSS for Introductory Statistics** Karen C. Barrett,Nancy L. Leech,Gene W. Gloeckner,George A. Morgan,2025-09-26 IBM SPSS for Introductory Statistics is designed to help students learn how to analyze and interpret research In easy to understand language the authors show readers how to choose the appropriate statistic based on the design and to interpret outputs appropriately There is such a wide variety of options and statistics in SPSS that knowing which ones to use and how to interpret the outputs can be difficult This book assists students with these challenges Comprehensive and user friendly this book prepares readers for each step in the research process design entering and checking data testing assumptions assessing reliability and validity computing descriptive and inferential parametric and nonparametric statistics and writing about results Dialog windows and SPSS syntax along with the output are provided Several realistic data sets are used to solve the chapter problems and are available as an online resource This edition includes the following Updated chapters and screenshots Additional SPSS work problems Callout boxes for each chapter indicating crucial elements of APA style and referencing outputs IBM SPSS for Introductory Statistics is an invaluable supplemental or lab text book for students In addition this book and its companion IBM SPSS for Intermediate Statistics are useful as guides reminders to faculty and professionals regarding the specific steps to take to use SPSS and or how to use and interpret parts of SPSS with which they are unfamiliar **CliffsNotes CBEST, 7th Edition** Jerry Bobrow,2011-07-20 Your guide to a higher score on CBEST California Basic Education Skills Test Why CliffsNotes Go with the name you know and trust Get the information you need fast About the Contents Introduction Description and format of the exam CBEST California Basic Education Skills Test scoring Commonly asked questions Part I Analysis of Exam Areas Reading Graphs and Charts Mathematics Writing Part II Mathematics Review Symbols Terminology Formulas and General Mathematical

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