

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. $y < \frac{2}{3}x + 1$
- b. $y \leq \frac{2}{3}x + 1$
- c. $y \geq \frac{2}{3}x + 1$
- 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. $(0, 2)$

Study Guide For Iowa Algebra Placement Exam

University of Iowa

The logo of the University of Iowa, featuring a red and white circular design with a stylized 'H' and 'I' inside.

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Guidance Manual for Vermont Secondary Schools Vermont. Department of Education. Guidance committee,1938

Journal of applied psychology ,1927 *Tests in Print* Oscar Krisen Buros,2006 Optimal Math's IAAT Handbook Joseph C Finlayson,Phillip K Blake,2023-09-12 Welcome to Optimal Math's inaugural IAAT text workbook a culmination of expertise dedication and understanding of the needs of young mathematical minds This book is meticulously crafted keeping your child's potential and aspirations at its core New for 2023 2024 School Year This workbook encompasses a range of problems specifically 600 unique ones spread across 10 practice tests It is essential to underscore that these aren't just any problems they have been methodically designed to challenge and stretch your child's mathematical muscles These problems are written engagingly with real world applications Gone are the days of 40 watermelons and 60 bananas instead your child will be interpreting accurate stock market charts and use cases of companies like SpaceX The rigor and complexity of the problems in this workbook are intentional Optimal Math ensures that students experience a level of challenge that surpasses the actual IAAT The rationale behind this is straightforward if a student can confidently tackle the problems in this workbook within the stipulated time they can walk into the IAAT with a level of preparedness and confidence that increases their likelihood of attaining commendable results However it's crucial to set clear expectations This workbook is not an Algebra 1 textbook While it presents problems and solutions it does not delve into exhaustive step by step explanations for each answer We recognize numerous high quality online resources that elucidate the solution methods exceptionally well Our intention is not to replicate but to complement those resources offering a focused practice platform for the IAAT Let me shed light on the expertise underpinning this workbook Optimal Math isn't just another entity in the educational sphere it is a hallmark of excellence and dedication This book is the brainchild of seasoned educators who aren't merely teachers but specialists in prepping students for Algebra 1 and the IAAT These educators have vast experience in navigating the nuanced requirements of the gifted and talented demographic Their insights and expertise amalgamated with the rigorous academic demands of these programs make this workbook an unparalleled resource In entrusting Optimal Math with your child's IAAT preparation you're not just choosing a workbook but aligning with a legacy of excellence precision and a deep seated commitment to

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