

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. $(0, 2)$

Algebra Qualification Exam 7 Grade

Barry Garelick, J. R. Wilson



Algebra Qualification Exam 7 Grade:

Mathematics in Colleges & Universities Clarence Bernhart Lindquist, 1965 **Placement Examinations in Mathematics** Clarence Bernhart Lindquist, 1963 Circular United States. Office of Education, 1965 Traditional Math: An effective strategy that teachers feel guilty using Barry Garelick, J. R. Wilson, 2022-11-04 Despite experiencing our teaching in different times we are both oriented to traditional math teaching It wasn't because we were both taught that way as some may believe but because that method worked for us and we have seen it work for our students It is efficient effective non confusing and helped our students develop mathematical reasoning understanding and confidence Most importantly it helped them to be successful So begins the book on traditional math which provides a glimpse of what explicit instruction looks like in the classroom for grades K through 8 Barry Garelick and J R Wilson are retired math teachers who describe the methods of traditionally taught math that they used in their teaching Their descriptions serve two purposes 1 It provides assurance to teachers who may already practice these methods that they are not alone and 2 For others it may provide some new ideas

Does Diagnostic Math Testing Improve Student Learning? , **The Well-Trained Mind** Susan Wise Bauer, Jessie Wise, 2009-05-04 Outstanding should be on every home educator's reference bookshelf Homeschooling Today This educational bestseller has dominated its field for the last decade sparking a homeschooling movement that has only continued to grow It will instruct you step by step on how to give your child an academically rigorous comprehensive education from preschool through high school Two veteran home educators outline the classical pattern of education the trivium which organizes learning around the maturing capacity of the child's mind With this model you will be able to instruct your child in all levels of reading writing history geography mathematics science foreign languages rhetoric logic art and music regardless of your own aptitude in those subjects Newly revised and updated The Well Trained Mind includes detailed book lists with complete ordering information up to date listings of resources publications and Internet links and useful contact information **Improving Large-Scale Assessment in Education** Marielle Simon, Kadriye Ercikan, Michel Rousseau, 2012-08-21 Large scale assessments LSAs play a growing role in education policy decisions accountability and education planning worldwide This book focuses on central issues that are key components of successful planning development and implementation of LSAs The book's main distinction is its focus on practice based cutting edge research This is achieved by having chapters co authored by world class researchers in collaboration with measurement practitioners The result is a how to book whose language is accessible to practitioners and graduate students as well as academics No other book so thoroughly covers current issues in the field of large scale assessment An introductory chapter is followed by sixteen chapters that each focus on a specific issue The content is prescriptive and didactic in nature but based on the most recent scientific research It includes successful experiences exemplary practices training modules interesting breakthroughs or alternatives and promising innovations regarding large scale assessments Finally it covers meaningful topics that are

currently taking center stage such as motivating students background questionnaires comparability of different linguistic versions of assessments and cognitive modeling of learning and assessment

Hearings, Reports and Prints of the Senate Select Committee on Equal Educational Opportunity United States. Congress. Senate. Select Committee on Equal Educational Opportunity,1970

Standards-based School Mathematics Curricula Sharon L. Senk,Denisse R. Thompson,2020-07-24

The Curriculum and Evaluation Standards for School Mathematics published by the National Council of Teachers of Mathematics in 1989 set forth a broad vision of mathematical content and pedagogy for grades K 12 in the United States These Standards prompted the development of Standards based mathematics curricula What features characterize Standards based curricula How well do such curricula work To answer these questions the editors invited researchers who had investigated the implementation of 12 different Standards based mathematics curricula to describe the effects of these curricula on students learning and achievement and to provide evidence for any claims they made In particular authors were asked to identify content on which performance of students using Standards based materials differed from that of students using more traditional materials and content on which performance of these two groups of students was virtually identical Additionally four scholars not involved with the development of any of the materials were invited to write critical commentaries on the work reported in the other chapters

Section I of Standards Based School Mathematics Curricula provides a historical background to place the current curriculum reform efforts in perspective a summary of recent recommendations to reform school mathematics and a discussion of issues that arise when conducting research on student outcomes Sections II III and IV are devoted to research on mathematics curriculum projects for elementary middle and high schools respectively The final section is a commentary by Jeremy Kilpatrick Regents Professor of Mathematics Education at the University of Georgia on the research reported in this book It provides a historical perspective on the use of research to guide mathematics curriculum reform in schools and makes additional recommendations for further research In addition to the references provided at the end of each chapter other references about the Standards based curriculum projects are provided at the end of the book This volume is a valuable resource for all participants in discussions about school mathematics curricula including professors and graduate students interested in mathematics education curriculum development program evaluation or the history of education educational policy makers teachers parents principals and other school administrators The editors hope that the large body of empirical evidence and the thoughtful discussion of educational values found in this book will enable readers to engage in informed civil discourse about the goals and methods of school mathematics curricula and related research

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