

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 Unit Lesson

RD Boyd



Algebra Unit Lesson :

50 Pre-Algebra Activities Ernie Woodward, Mary Lou Witherspoon, Ernest Woodward, 1998 From geometric and numerical patterns to graphing non linear figures 50 reproducible activities make pre algebra less intimidating by exploring why formulas work rather than just having students memorize them Students work individually or in groups on lessons covering variables numerical relationships equations and patterns Teacher pages give you objectives prerequisite lessons materials needed and procedures for each activity Enriching Your Math Curriculum Lainie Schuster, 2010 Presents practices and routines designed to support and nourish teachers as they prepare and present a meaningful year of mathematics instruction for fifth grade mathematicians Offers activities lessons and narration that can be easily adapted or adjusted to fit the particular needs of the students or the requirements of a prescribed curriculum Algebra: Themes, Tools, Concepts -- Teachers' Edition Henri Picciotto, Anita Wah, 1994 *The Marine Corps Institute Handbook* Marine Corps Institute (U.S.), 1951 *The Math Teacher's Toolbox* Bobson Wong, Larisa Bukalov, 2020-04-28 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher s Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators **Understanding by Design Guide to Advanced Concepts in Creating and Reviewing Units** Grant Wiggins, Jay McTighe, 2012-03-16 The Understanding by Design Guide to Advanced Concepts in Creating and

Reviewing Units offers instructional modules on how to refine units created using Understanding by Design UbD and how to effectively review the units using self assessment and peer review along with observation and supervision The Guide builds upon its companion and predecessor The Understanding by Design Guide to Creating High Quality Units and like the earlier volume it presents the following components for each module Narrative discussion of key ideas in the module Exercises worksheets and design tips Examples of unit designs Review criteria for self and peer assessment References for further information UbD is based on a backward design approach and is used by thousands of educators to create curriculum units and assessments that focus on developing students understanding of essential ideas and helping students attain important skills The Guide is intended for use by individuals or groups in K 16 education teachers school and district administrators curriculum directors graduate and undergraduate students in curriculum and others who want to further develop their skill in UbD Users can work through the modules in order or pick and choose depending on their interests and needs Additional resources including worksheets examples and FAQs are available as downloadable forms including fillable UbD templates that can be saved electronically making it easy for UbD practitioners to advance their understanding and their ability to create curriculum that leads to deep meaningful learning

Understanding Lesson Study for Mathematics Rosa Archer, Siân Morgan, David Swanson, 2020-06-04 Using the latest research this book provides an insight into how learning in mathematics can be improved through a lesson study approach This highly practical resource explores the research and theory that underpins lesson study and shows the significant impact it can have on teacher development Divided into ten accessible main chapters that focus in depth on an individual mathematics lesson each chapter provides research and background to the lesson an outline of key features a detailed description and analysis of the lesson in practice post lesson discussions and reflections which generalise from the experience as well as links to helpful resources Some of the key topics explored include Fractions Proportional relationships Probability and statistics Geometry Modelling Algebra Dialogic reasoning Understanding Lesson Study for Mathematics is the perfect resource for all mathematics teachers trainee teachers and professional developers who are looking to develop the use of lesson study in their own practice or for those simply seeking new inspiring ideas for the mathematics classroom

Mathematics Unit Planning in a PLC at Work®, High School Sarah Schuhl, Timothy D. Kanold, Bill Barnes, Darshan M. Jain, Matthew R. Larson, Brittany Mozingo, 2020-12-31 Champion student mastery of essential mathematics content in grades 9 12 Part of the Every Student Can Learn Mathematics series this guidebook provides high school teachers with a framework for collectively planning units of study in a professional learning community PLC The authors share tools and protocols for unwrapping standards generating unit calendars developing rigorous lessons and many other essential team actions Use this resource to discover practical insight into collaborative planning and inspiring detailed models of unit planning in action Understand how to collaboratively plan units for high school mathematics Study the seven unit planning elements and learn how to incorporate each in unit designs

Review the role of the PLC at Work process in enhancing student learning and teacher collaboration Observe model units for Algebra 1 geometry and Algebra 2 Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in High School Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Transformations on the Coordinate Plane Unit Examples for Algebra 1 Geometry and Algebra 2 Chapter 3 Algebra 1 Unit Graphs of Quadratic Functions Chapter 4 Geometry Unit Transformations and Congruence Chapter 5 Algebra 2 Unit Graphs of Trigonometric Functions Epilogue Mathematics Team Operations Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning Contemporary Mathematics in Context: Part B : Units 5-8 Arthur F. Coxford,1999 *Lessons Learned from Research on Mathematics Curriculum* Denisse R Thompson,Mary Ann Huntley,Christine Suurtamm,2024-09-01 This volume focuses on research related to mathematics curriculum But rather than focusing on results of research it focuses on lessons learned about conducting research on curriculum whether about design and development analysis of curriculum in the form of official standards or textbook instantiations teacher intentions related to curriculum implementation or actual classroom enactment For scholars interested in curriculum research the volume offers lessons about conducting curriculum research that have been learned by others engaged in such work including frameworks tools and techniques as well as challenges and issues faced with solutions to address them Sharing lessons from authors of different countries strengthens the broader mathematics research community and provides insights that can help researchers make important strides forward in research on mathematics curriculum

Uncover the mysteries within Crafted by is enigmatic creation, **Algebra Unit Lesson** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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