

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 2 Unit Lesson

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Algebra 2 Unit Lesson :

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 *Folens Maths Programme* Susan Ball, 2002-09-30 Year 7 - Upper Student Book - Folens Maths Programme Folens Publishers, 2002 *The Marine Corps Institute Handbook* Marine Corps Institute (U.S.), 1951 **Artificial Intelligence in Education Technologies: New Development and Innovative Practices** Tim Schlippe, Eric C. K. Cheng, Tianchong Wang, 2024-12-31 This book is a collection of selected research papers presented at the 2024 5th International Conference on Artificial Intelligence in Education Technology AIET 2024 held in Barcelona Spain on July 29-31 2024 AIET establishes a platform for AI in education researchers to present research exchange innovative ideas propose new models as well as demonstrate advanced methodologies and novel systems It is a timely and up to date publication responsive to the rapid development of AI technologies practices and their increasingly complex interplay with the education domain It promotes the cross fertilisation of knowledge and ideas from researchers in various fields to construct the interdisciplinary research area of AI in Education These subject areas include computer science cognitive science education learning sciences educational technology psychology philosophy sociology anthropology and linguistics The feature of this book will contribute from diverse perspectives to form a dynamic picture of AI in Education It also includes various domain specific areas for which AI and other education technology systems have been designed or used in an attempt to address challenges and transform educational practice Education stands as a cornerstone for societal progress and ensuring universal access to quality education is integral to achieving Goal 4 of the United Nations Sustainable

Development Goals SDGs The goal is to ensure inclusive and equitable quality education for all by 2030 This involves not only expanding access to education but also improving the quality of education to promote lifelong learning opportunities AI has the potential to significantly contribute to the achievement of Goal 4 It is committed to exploring how AI may play a role in bringing more innovative practices transforming education and triggering an exponential leap towards the achievement of the Education 2030 Agenda Providing broad coverage of recent technology driven advances and addressing a number of learning centric themes the book is an informative and useful resource for researchers practitioners education leaders and policy makers who are involved or interested in AI and education

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Mathematics Teaching Methods (Volume-5):Mathematics for Sr. Teacher (Grade-II) Dr. Jitendra Singh, Volume 5 of the Mathematics Blueprint Series is an essential guide for aspiring Senior Teachers offering a comprehensive blend of pedagogical knowledge and practical classroom skills Designed to support effective mathematics teaching and RPSC exam preparation this volume ensures teachers are well equipped to engage students and excel in competitive examinations The book focuses on four core areas Nature and Objectives of Mathematics Teaching Learn the meaning scope and principles of mathematics curriculum design along with techniques for framing clear measurable learning objectives Methods and Teaching Techniques Explore both traditional and modern teaching methods including heuristic project based and laboratory approaches alongside oral written and programmed instruction strategies Lesson Planning and Teaching Aids Master yearly unit and lesson planning and discover effective use of low cost audio visual and real life teaching aids that connect mathematics with other subjects Evaluation and Remedial Teaching Understand assessment strategies remedial programs and enrichment for gifted students with RPSC focused sample questions and multiple choice exercises This volume is a practical exam oriented resource that empowers teachers to enhance instructional expertise foster student engagement and achieve success in competitive teaching examinations

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