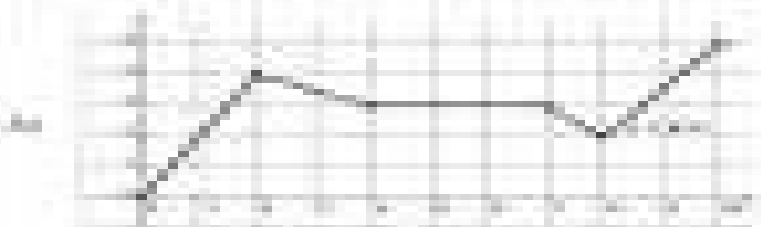


Functions: Give One, Get One

Write each statement, choose the function(s) that best describes it, and explain your function.



Write or draw: Give One, Get One

- Question 1:** Write a function that is continuous and has a maximum at $x = 2$.
- Answer 1:** $f(x) = -x^2 + 4x$
- Question 2:** Write a function that is continuous and has a minimum at $x = 2$.
- Answer 2:** $f(x) = x^2 - 4x$
- Question 3:** Write a function that is continuous and has a maximum at $x = 2$.
- Answer 3:** $f(x) = -x^2 + 4x$
- Question 4:** Write a function that is continuous and has a minimum at $x = 2$.
- Answer 4:** $f(x) = x^2 - 4x$

Write or draw: Give One, Get One

- The graph of the function is continuous and has a maximum at $x = 2$.
- The graph of the function is continuous and has a minimum at $x = 2$.

Answer: Give One, Get One

The graph of the function is continuous and has a maximum at $x = 2$. The graph of the function is continuous and has a minimum at $x = 2$.

Write or draw: Give One, Get One

- Question 1:** Write a function that is continuous and has a maximum at $x = 2$.
- Answer 1:** $f(x) = -x^2 + 4x$
- Question 2:** Write a function that is continuous and has a minimum at $x = 2$.
- Answer 2:** $f(x) = x^2 - 4x$
- Question 3:** Write a function that is continuous and has a maximum at $x = 2$.
- Answer 3:** $f(x) = -x^2 + 4x$
- Question 4:** Write a function that is continuous and has a minimum at $x = 2$.
- Answer 4:** $f(x) = x^2 - 4x$

Write or draw: Give One, Get One

- The graph of the function is continuous and has a maximum at $x = 2$.
- The graph of the function is continuous and has a minimum at $x = 2$.

Answer: Give One, Get One

The graph of the function is continuous and has a maximum at $x = 2$.

Precalculus Hs Mathematics Unit 11 Lesson 01

Lingsheng Yao



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Mathematics Unit Planning in a PLC at Work®, High School Sarah Schuhl, Timothy D. Kanold, Bill Barnes, Darshan M. Jain, Matthew R. Larson, Brittany Mazingo, 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.

Common Core Mathematics in a PLC at Work™, High School Timothy D. Kanold, 2012-05-09 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics for high school. Discover what students should learn and how they should learn it. Comprehensive research-affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency.

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Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and

unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

Acquisition of Complex Arithmetic Skills and Higher-Order Mathematics Concepts David C. Geary, Daniel B. Berch, Robert Ochsendorf, Kathleen Mann Koepke, 2017-08-01 Acquisition of Complex Arithmetic Skills and Higher Order Mathematics Concepts focuses on typical and atypical learning of complex arithmetic skills and higher order math concepts As part of the series Mathematical Cognition and Learning this volume covers recent advances in the understanding of children s developing competencies with whole number arithmetic fractions and rational numbers Each chapter covers these topics from multiple perspectives including genetic disorders cognition instruction and neural networks Covers innovative measures and recent methodological advances in mathematical thinking and learning Contains contributions that improve instruction and education in these domains Informs policy aimed at increasing the level of mathematical proficiency in the

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Table of Contents Precalculus Hs Mathematics Unit 11 Lesson 01

1. Understanding the eBook Precalculus Hs Mathematics Unit 11 Lesson 01
 - The Rise of Digital Reading Precalculus Hs Mathematics Unit 11 Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Precalculus Hs Mathematics Unit 11 Lesson 01
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Precalculus Hs Mathematics Unit 11 Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from Precalculus Hs Mathematics Unit 11 Lesson 01
 - Personalized Recommendations
 - Precalculus Hs Mathematics Unit 11 Lesson 01 User Reviews and Ratings
 - Precalculus Hs Mathematics Unit 11 Lesson 01 and Bestseller Lists
5. Accessing Precalculus Hs Mathematics Unit 11 Lesson 01 Free and Paid eBooks
 - Precalculus Hs Mathematics Unit 11 Lesson 01 Public Domain eBooks
 - Precalculus Hs Mathematics Unit 11 Lesson 01 eBook Subscription Services
 - Precalculus Hs Mathematics Unit 11 Lesson 01 Budget-Friendly Options

6. Navigating Precalculus Hs Mathematics Unit 11 Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Precalculus Hs Mathematics Unit 11 Lesson 01 Compatibility with Devices
 - Precalculus Hs Mathematics Unit 11 Lesson 01 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Precalculus Hs Mathematics Unit 11 Lesson 01
 - Highlighting and Note-Taking Precalculus Hs Mathematics Unit 11 Lesson 01
 - Interactive Elements Precalculus Hs Mathematics Unit 11 Lesson 01
8. Staying Engaged with Precalculus Hs Mathematics Unit 11 Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Precalculus Hs Mathematics Unit 11 Lesson 01
9. Balancing eBooks and Physical Books Precalculus Hs Mathematics Unit 11 Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Precalculus Hs Mathematics Unit 11 Lesson 01
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Precalculus Hs Mathematics Unit 11 Lesson 01
 - Setting Reading Goals Precalculus Hs Mathematics Unit 11 Lesson 01
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Precalculus Hs Mathematics Unit 11 Lesson 01
 - Fact-Checking eBook Content of Precalculus Hs Mathematics Unit 11 Lesson 01
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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