

Quadratic Functions (pp. 2 of 4)

Examples:

1. Given the function $y = x^2 - 6x + 8$, find the following:
 - a. Vertex
 - b. maximum or minimum
 - c. axis of symmetry
 - d. y-intercept
 - e. x-intercept (zeros)
 - f. graph



2. For the given graph, find the following:
 - a. Vertex
 - b. maximum or minimum
 - c. axis of symmetry
 - d. y-intercept
 - e. x-intercept (zeros)
 - f. equation representing the quadratic function



Geometry Hs Mathematics Unit 02 Lesson 01

B Lingard



Geometry Hs Mathematics Unit 02 Lesson 01:

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 **General Extension Division Record** ,1924 **Index to Educational Audio Tapes** National Information Center for Educational Media,1974 **Resources in Education** ,2001 [Index to Educational Audio Tapes](#) ,1974 **Approaches to Studying the Enacted Mathematics Curriculum** Kathryn Chval, Dan Heck, Iris Weiss, Steven W. Ziebarth, 2012-09-01 Curriculum materials are among the most pervasive and powerful influences on school mathematics In many mathematics classes student assignments

the questions the teacher asks the ways students are grouped the forms of assessment and much more originate in curriculum materials At the same time teachers have considerable latitude in how they use their curriculum materials Two classes making use of the same materials may differ markedly in what mathematics content is emphasized and how students are engaged in learning that content This volume considers a variety of research tools for investigating the enactment of mathematics curriculum materials describing the conceptualization development and uses of seven sets of tools Mathematics education researchers curriculum developers teacher educators district supervisors teacher leaders and math coaches will find insights that can improve their work and guidance for selecting adapting and using tools for understanding the complex relationship between curriculum materials and their enactment in classroom instruction **Midland Schools** ,1918 *The Math Pact, High School* Barbara J. Dougherty, Sarah B. Bush, Karen S. Karp, 2020-09-19 A schoolwide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you re staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddled their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations representations rules and generalizations within and across classrooms and grades Importantly you ll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to dos and try it outs Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students build on existing understanding to find new success and most importantly love learning and doing mathematics *Title Index, ERIC ED Accessions File* ERIC Processing and Reference Facility, 1966 *Resources in Education* ,1996 **El-Hi Textbooks in Print** ,1984 *El-Hi Textbooks & Serials in Print, 2000* ,2000 *Research in Education* ,1974 The Mining Journal, Railway and Commercial Gazette ,1893 Children's Books in Print, 2007 ,2006 *JCPenney [catalog]*. ,1995 **El-Hi Textbooks & Serials in Print, 2003** ,2003 The Science Teacher ,1995 Some issues are accompanied by a CD ROM on a selected topic **El-Hi Textbooks & Serials in Print, 2005** ,2005 Comparative Case Studies of Mathematics Instruction and Learning in Three High-achieving European Countries Takako Kawanaka, 2000

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