

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

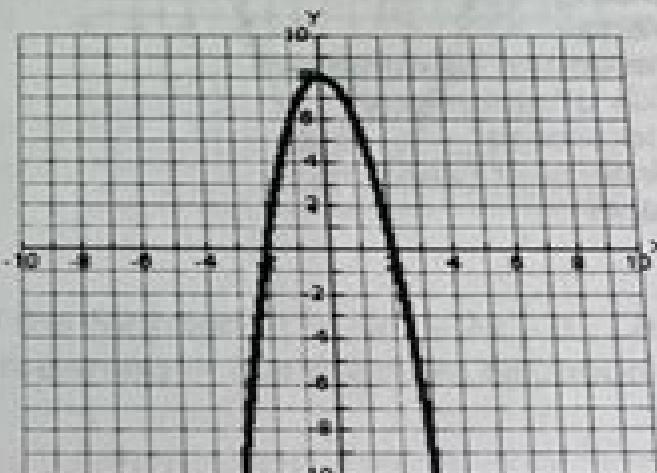


For the given quadratic graph, find the following:

- a. Vertex
- b. maximum or minimum
- c. axis of symmetry

2. For the given graph, find the following, 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 Lesson Paper

**National Committee on Mathematical
Requirements**

Geometry Hs Mathematics Unit Lesson Paper:

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

The Teaching of Junior High School Mathematics David Eugene Smith, William David Reeve, 1927 Resources in Education, 1996 Mathematics, Junior High School Grades VII, VIII, and IX ... San Francisco (Calif.). Board of Education, 1927

Teaching Secondary School Mathematics Stephen Krulik, Ingrid B. Weise, 1975 The Teaching of Mathematics in the United Kingdom Great Britain. Board of Education, 1912

The Mathematics Teacher, 1921 **Pennsylvania School Journal**, 1920

Mathematics Teacher, Learning and Teaching PK-12 ,1919 **Annual Catalogue of the Agricultural and Mechanical College of Texas. Session ...** Agricultural and Mechanical College of Texas,1924 Resources in Education ,1996 **Bulletin of High Points in the Work of the High Schools of New York City** ,1926 **Bulletin** ... American School (Chicago, Ill.),1927 **The Reorganization of Mathematics in Secondary Education** National Committee on Mathematical Requirements,1923 *Industrial Education Magazine* ,1922 **Industrial Education Magazine** Charles Alpheus Bennett,William Thomas Bawden,1925 *Manual Training Magazine* Charles Alpheus Bennett,William Thomas Bawden,1925 **Proceedings of the High School Conference of ...** ,1928 **Report of the Minister for Education and Cultural Activities** Queensland. Department of Education,1923 Texas High Schools Texas. State Department of Education,1925

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