

You Make a Difference!



Just like ellipses, hyperbolas have two foci. The foci of a hyperbola are always located on the transverse axis. How do we find these foci? What properties do they have? Let's explore.

1. Consider the ellipse given by $\frac{x^2}{9} - \frac{y^2}{16} = 1$. Is this a vertical or horizontal hyperbola? How long is the transverse axis? How do you know?

horizontal b/c x is first
 transverse axis = $b = 2a$
 $2(3) = 6$



2. Label the center and the two vertices of the hyperbola.

3. In an ellipse, the **sum** of the distances from any point on the ellipse to the foci is constant (the length of the major axis). Is the same true for hyperbolas? Give a convincing argument.

NO → the sum of the distance from point P is much larger than the sum of the distances from one of the vertices

Let's investigate the distances from the right vertex to the foci.

- a. In terms of c , how far away is the right vertex from the right focus?

$c - 3$ units

- b. How far away is the right vertex from the left focus?

$3 - (-c) = 3 + c$ units

- c. What is the difference between these two distances? What other feature of the hyperbola does this value represent?

$(3+c) - (c-3) = 3+c-c+3 = 6$ units → the length of the transverse axis

5. Let's check using a different point on our hyperbola, $(6, \sqrt{48})$. Suppose we know that $c = 5$.

- a. Find the distance between the point and each focus.

$$d = \sqrt{(5-6)^2 + (0-\sqrt{48})^2}$$

$$d = \sqrt{1+48} = \sqrt{49} = 7$$

$$d = \sqrt{(-5-6)^2 + (0-\sqrt{48})^2}$$

$$d = \sqrt{121+48} = \sqrt{169} = 13$$

- b. What is the difference between the distances?

$$13 - 7 = 6$$

- c. How does this relate to your answer in #4c?

it's the same as my answer in #4c

Do you notice any patterns about a , b , and c .

$$a = 3 \quad b = 4 \quad c = 5$$

$$3^2 + 4^2 = 5^2 \rightarrow a^2 + b^2 = c^2$$

a hyperbola is the set of points whose difference of the distances between the point & the foci is the same ($2a$)

$$c^2 = a^2 + b^2$$

Lesson Master Answers Precalculus

Marco Casella



Lesson Master Answers Precalculus:

Exemplary Promising Mathematics Programs, 1999 **El-Hi Textbooks and Serials in Print**, 2006 *El-Hi Textbooks & Serials in Print, 2003*, 2003 Algebra, 2002 *Precalculus* Holt McDougal, 2004 **Mathematics and Science Curriculum Programs**, 2002 *Precalculus and Discrete Mathematics* Anthony L. Peressini, 1992 *New Horizons in Mathematics and Science Education*, 2001 *ENC Focus*, 2001 **Merrill Advanced Mathematical Concepts**, 1997? *Meet Every Learner's Needs* Robert Barnett, 2025-01-29 Classroom tested strategies to inspire true student learning Meet Every Learner's Needs delivers research backed techniques to transform classrooms into dynamic learning environments in which all students are appropriately challenged and appropriately supported every day Based on teacher and Modern Classrooms Project cofounder Robert Barnett's experience training thousands of teachers worldwide this book provides a methodology for K 12 educators to design lessons and courses that respond to individual learners unique needs and help every learner develop authentic understanding This approach has empowered educators and students in all grade levels and content areas everywhere from underperforming inner city public schools to elite international schools across all fifty states and over 150 countries The book includes highly practical tips and templates which busy teachers can use to provide better instruction immediately Throughout the book readers will learn how to Make direct instruction accessible and engaging to all learners Develop strong personal relationships with and between learners Create efficient learning experiences that give learners ownership and autonomy Share this approach with their colleagues and communities Meet Every Learner's Needs will leave readers both inspired and empowered to redesign instruction in their classrooms and communities It will help educators administrators and parents take immediate action to create learning experiences that help all students truly succeed **Mathematics Classrooms That Promote Understanding** Elizabeth Fennema, Thomas A. Romberg, 1999-04-01 *Mathematics Classrooms That Promote Understanding* synthesizes the implications of research done by the National Center for Research in Mathematical Sciences on integrating two somewhat diverse bodies of scholarly inquiry the study of teaching and the study of learning mathematics This research was organized around content domains and or continuing issues of education such as equity and assessment of learning and was guided by two common goals defining the mathematics content of the K 12 curriculum in light of the changing mathematical needs of citizens for the 21st century and identifying common components of classrooms that enable students to learn the redefined mathematics with understanding To accomplish these goals classrooms in which instruction facilitated the growth of understanding were established and or studied This volume reports and discusses the findings which grew out of this research and subsequent papers and discussions among the scholars engaged in the endeavor Section I Setting the Stage focuses on three major threads What mathematics should be taught how we should define and increase students understanding of that mathematics and how learning with understanding can be facilitated for all students Section II Classrooms That Promote Understanding includes

vignettes from diverse classrooms that illustrate classroom discourse student work and student engagement in the mathematics described in Chapter 1 as well as the mental activities described in Chapter 2 These chapters also illustrate how teachers deal with the equity concerns described in Chapter 3 Section III addresses Developing Classrooms That Promote Understanding The knowledge of the teaching learning process gained from the research reported in this volume is a necessary prerequisite for implementing the revisions called for in the current reform movement The classrooms described show that innovative reform in teaching and learning mathematics is possible Unlike many volumes reporting research this book is written at a level appropriate for master s degree students Very few references are included in the chapters themselves instead each chapter includes a short annotated list of articles for expanded reading which provides the scholarly basis and research substantiation for this volume

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