

Translating Conic Sections

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Additional Examples

OBJECTIVE

1

2

EXAMPLE

Write an equation of a hyperbola with vertices $(-1, 2)$ and $(3, 2)$, and foci $(-3, 2)$ and $(5, 2)$.

Draw a sketch. The center is the midpoint of the line joining the vertices. Its coordinates are $(1, 2)$.

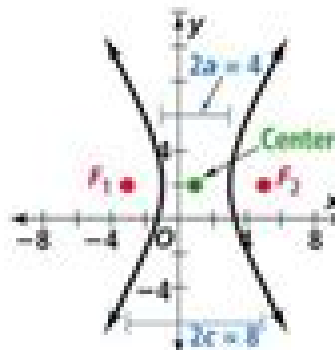
The distance between the vertices is $2a$, and the distance between the foci is $2c$. $2a = 4$, so $a = 2$; $2c = 8$, so $c = 4$.

Find b^2 using the Pythagorean Theorem.

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

$$16 = 4 + b^2$$

$$b^2 = 12$$



MAIN MENU

LESSON

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Sample Problems For Translating Conic Sections

Hubert Ashton Holden



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Verse-translations from Propertius, Book V Sextus Propertius, 1866 *The Agricola and Germany of Tacitus. Translated Into English by A. J. Church and W. J. Brodribb. With Notes and Maps* Cornelius Tacitus, 1868 **Ibn al-Haytham's Theory of Conics, Geometrical Constructions and Practical Geometry** Roshdi Rashed, 2013-06-26

Theory of Conics Geometrical Constructions and Practical Geometry A History of Arabic Sciences and Mathematics Volume 3 provides a unique primary source on the history and philosophy of mathematics and science from the mediaeval Arab world The present text is complemented by two preceding volumes of A History of Arabic Sciences and Mathematics which focused on founding figures and commentators in the ninth and tenth centuries and the historical and epistemological development of infinitesimal mathematics as it became clearly articulated in the oeuvre of Ibn al Haytham This volume examines the increasing tendency after the ninth century to explain mathematical problems inherited from Greek times using the theory of conics Roshdi Rashed argues that Ibn al Haytham completes the transformation of this area of activity into a part of geometry concerned with geometrical constructions dealing not only with the metrical properties of conic sections but with ways of drawing them and properties of their position and shape Including extensive commentary from one of world's foremost authorities on the subject this book contributes a more informed and balanced understanding of the internal currents of the history of mathematics and the exact sciences in Islam and of its adaptive interpretation and assimilation in the European context This fundamental text will appeal to historians of ideas epistemologists and mathematicians at the most advanced levels of research

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This book follows the development of classical mathematics and the relation between work done in the

Arab and Islamic worlds and that undertaken by the likes of Descartes and Fermat Early modern mathematics is a term widely used to refer to the mathematics which developed in the West during the sixteenth and seventeenth century For many historians and philosophers this is the watershed which marks a radical departure from classical mathematics to more modern mathematics heralding the arrival of algebra geometrical algebra and the mathematics of the continuous In this book Roshdi Rashed demonstrates that early modern mathematics is actually far more composite than previously assumed with each branch having different traceable origins which span the millennium Going back to the beginning of these parts the aim of this book is to identify the concepts and practices of key figures in their development thereby presenting a fuller reality of these mathematics This book will be of interest to students and scholars specialising in Islamic science and mathematics as well as to those with an interest in the more general history of science and mathematics and the transmission of ideas and culture

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