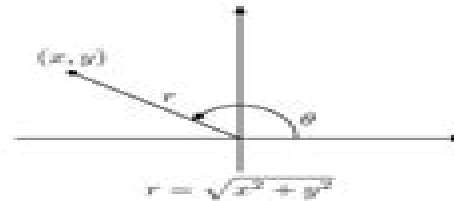


# Chapter 15

## Section 1

Recall that when we first looked at trig all our angles were acute. What do we do if the angle is not in the first quadrant and we want to find  $\sin \theta$ . Suppose we have

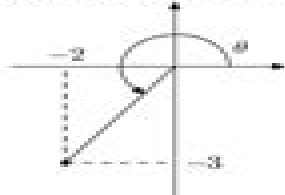


Then

$$\sin \theta = \frac{y}{r}.$$

In fact no matter what quadrant the angle lies in the trig functions are defined exactly as before.

**Example 1.** Evaluate the trig functions if  $\theta$  is given by



So to evaluate the trig functions at any angle with the calculator all you have to do is just plug the angle in and hit the button.

**Example 2.**

1.  $\sin 30^\circ =$
2.  $\cos 120^\circ =$
3.  $\tan -45^\circ =$

We now want to look at the inverse trig functions. Recall that in order for a function to have an inverse it must be one-to-one. But  $\sin \theta$  is not one-to-one!

# Advanced Technical Mathematics

**RS Peters**



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## **Table of Contents Advanced Technical Mathematics**

1. Understanding the eBook Advanced Technical Mathematics
  - The Rise of Digital Reading Advanced Technical Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Technical Mathematics
  - 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 Advanced Technical Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Technical Mathematics
  - Personalized Recommendations
  - Advanced Technical Mathematics User Reviews and Ratings
  - Advanced Technical Mathematics and Bestseller Lists
5. Accessing Advanced Technical Mathematics Free and Paid eBooks
  - Advanced Technical Mathematics Public Domain eBooks
  - Advanced Technical Mathematics eBook Subscription Services
  - Advanced Technical Mathematics Budget-Friendly Options
6. Navigating Advanced Technical Mathematics eBook Formats
  - ePub, PDF, MOBI, and More
  - Advanced Technical Mathematics Compatibility with Devices
  - Advanced Technical Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Advanced Technical Mathematics
  - Highlighting and Note-Taking Advanced Technical Mathematics
  - Interactive Elements Advanced Technical Mathematics

8. Staying Engaged with Advanced Technical Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Advanced Technical Mathematics
9. Balancing eBooks and Physical Books Advanced Technical Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Advanced Technical Mathematics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Advanced Technical Mathematics
  - Setting Reading Goals Advanced Technical Mathematics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Advanced Technical Mathematics
  - Fact-Checking eBook Content of Advanced Technical Mathematics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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