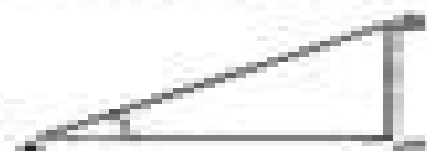


# ELEMENTS OF TRIGONOMETRY

## CHAPTER I

### THE TRIGONOMETRIC FUNCTIONS

**I. The Sine of an Angle.**—Let us consider a given acute angle  $A$ , and suppose that we have constructed a right triangle  $ABC$ , containing angle  $A$ . Suppose the lengths of  $AB$  and  $CB$  to be measured, and the value of their ratio,  $CB \div AB$ , to be calculated. This ratio is called the *sine* of angle  $A$ , and is denoted as follows:

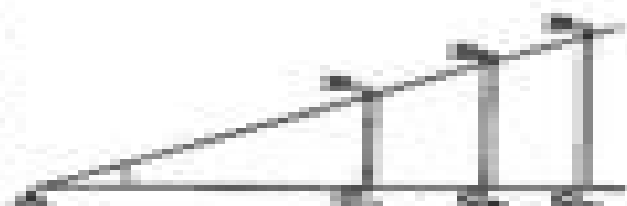


Given any acute angle  $A$ , form a right triangle with  $\angle A$  as one of its angles. Then

$$\text{sine of } \angle A = \frac{\text{opposite side}}{\text{hypotenuse}}.$$

The abbreviation for sine of  $\angle A$  is *sin A*.

This quantity, that is *sin A*, has the same value for all right triangles from which it may be obtained. For, all right triangles containing a given angle  $A$  are mutually equiangular, and hence similar. Therefore the ratios of corresponding sides are equal. The figure shows several such triangles placed with their angle  $A$  superposed. Then the ratios



$$\frac{\text{side opposite } \angle A}{\text{hypotenuse}} = \frac{C_1B_1}{AB_1} = \frac{C_2B_2}{AB_2} = \frac{C_3B_3}{AB_3}$$

are all equal, and, by definition, determine the value of *sin A*.

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1. Understanding the eBook Elements Of Trigonometry 3ed
  - The Rise of Digital Reading Elements Of Trigonometry 3ed
  - Advantages of eBooks Over Traditional Books
2. Identifying Elements Of Trigonometry 3ed
  - 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 Elements Of Trigonometry 3ed
  - User-Friendly Interface
4. Exploring eBook Recommendations from Elements Of Trigonometry 3ed

- Personalized Recommendations
- Elements Of Trigonometry 3ed User Reviews and Ratings
- Elements Of Trigonometry 3ed and Bestseller Lists
- 5. Accessing Elements Of Trigonometry 3ed Free and Paid eBooks
  - Elements Of Trigonometry 3ed Public Domain eBooks
  - Elements Of Trigonometry 3ed eBook Subscription Services
  - Elements Of Trigonometry 3ed Budget-Friendly Options
- 6. Navigating Elements Of Trigonometry 3ed eBook Formats
  - ePub, PDF, MOBI, and More
  - Elements Of Trigonometry 3ed Compatibility with Devices
  - Elements Of Trigonometry 3ed Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Elements Of Trigonometry 3ed
  - Highlighting and Note-Taking Elements Of Trigonometry 3ed
  - Interactive Elements Elements Of Trigonometry 3ed
- 8. Staying Engaged with Elements Of Trigonometry 3ed
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Elements Of Trigonometry 3ed
- 9. Balancing eBooks and Physical Books Elements Of Trigonometry 3ed
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Elements Of Trigonometry 3ed
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Elements Of Trigonometry 3ed
  - Setting Reading Goals Elements Of Trigonometry 3ed
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elements Of Trigonometry 3ed

- Fact-Checking eBook Content of Elements Of Trigonometry 3ed
- 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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