

CHAPTER 19 NUMERICAL TRIGONOMETRY

The word "trigonometry" means "measurement by triangles." As it is presented in many textbooks, trigonometry includes topics other than triangles and measurement. However, this chapter is intended only as an introduction to the numerical aspects of trigonometry as they relate to measurement of lengths and angles.

SPECIAL PROPERTIES OF RIGHT TRIANGLES

A **RIGHT TRIANGLE** has been defined as any triangle containing a right angle. The side opposite the right angle in a right triangle is a **HYPOTENUSE**. (See fig. 19-1.) In figure 19-1, side AC is the hypotenuse.

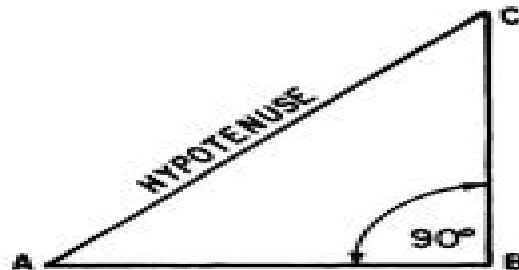


Figure 19-1.—A right triangle.

An important property of all right triangles, which relates the lengths of the three sides, was discovered by the Greek philosopher Pythagoras.

PYTHAGOREAN THEOREM

The rule of Pythagoras, or **PYTHAGOREAN THEOREM**, states that the square of the length of the hypotenuse (in any right triangle) is equal to the sum of the squares of the lengths of the other two sides. For example, if the sides are



Figure 19-2.—The Pythagorean Theorem.

(A) General triangle; (B) triangle with sides of specific lengths.

labeled as in figure 19-2 (A), the Pythagorean Theorem is stated in symbols as follows:

$$x^2 + y^2 = r^2$$

An example of the use of the Pythagorean Theorem in a problem follows:

EXAMPLE: Find the length of the hypotenuse in the triangle shown in figure 19-2 (B).

SOLUTION:

$$\begin{aligned} r^2 &= 3^2 + 4^2 \\ r &= \sqrt{9 + 16} \\ &= \sqrt{25} = 5 \end{aligned}$$

EXAMPLE: An observer on a ship at point A, figure 19-3, knows that his distance from point C is 1,200 yards and that the length of BC is 1,300 yards. He measures angle A and finds that it is 90° . Calculate the distance from A to B.

SOLUTION: By the rule of Pythagoras,

$$\begin{aligned} (BC)^2 &= (AB)^2 + (AC)^2 \\ (1,300)^2 &= (AB)^2 + (1,200)^2 \\ (1,300)^2 - (1,200)^2 &= (AB)^2 \\ (13 \times 10^2)^2 - (12 \times 10^2)^2 &= (AB)^2 \\ (169 \times 10^4) - (144 \times 10^4) &= (AB)^2 \\ 25 \times 10^4 &= (AB)^2 \\ 500 \text{ yd} &= AB \end{aligned}$$

Numerical Trigonometry

K Morrison



Numerical Trigonometry:

Numerical Trigonometry Percival Abbott, 1918 *B.H. Blackwell* B.H. Blackwell Ltd, 1928 *The Teaching of Junior High School Mathematics* David Eugene Smith, 1927 *The Best Books: H, Natural science. H*, Medicine and surgery. I, Arts and trades.* 1926 William Swan Sonnenschein, 1926 **Catalog Number** Indiana State Teachers College, 1927 *The Reorganization of Mathematics in Secondary Education* National Committee on Mathematical Requirements, 1923 *Index to Mathematical Problems, 1980-1984* Stanley Rabinowitz, 1992 A compendium of over 5 000 problems with subject keyword author and citation indexes **Journal of Education and School World** ,1918 **Thesaurus of ERIC Descriptors** ,1977 *Course of Study in Mathematics* Pennsylvania. Department of Public Instruction, 1927 *Mathematics: NavPers 10070-A* United States. Bureau of Naval Personnel, 1951 **The Mathematics Teacher** ,1921 **The Circle of the Sciences** Encyclopaedias, 1873 **The Mathematical Gazette** ,1920 **Teaching Junior High School Mathematics** Harry Clark Barber, 1924 This book is addressed to teacher and school officials and considers recent proposals for improvement in the content and teaching of arithmetic algebra and geometry It discusses the question whether it is possible to vie the children of these grades a broad and interesting view of the field of elementary mathematics without sacrificing sound scholarship Nearly all of the material presented here has been used repeatedly and effectively not only in defining the new mathematics in the minds of educators but also in giving them practical assistance in putting it into successful operation It may be of interest to all educators who deal with the problems of the mathematics from grade six through the high school and the pages on approximate computation may be of interest also to teachers of science Preface *Mathematics in the Junior High School* John Roscoe Clark, 1925 **School Science and Mathematics** ,1908 **Junior High School Mathematical Essentials** J. Andrew Drushel, John William Withers, 1926 *Selected Topics in the Teaching of Mathematics* National Council of Teachers of Mathematics, 1928 **Trigonometry Workbook For Dummies** Mary Jane Sterling, 2006-02-10 From angles to functions to identities solve trig equations with ease Got a grasp on the terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin No fear this hands on guide focuses on helping you solve the many types of trigonometry equations you encounter in a focused step by step manner With just enough refresher explanations before each set of problems you ll sharpen your skills and improve your performance You ll see how to work with angles circles triangles graphs functions the laws of sines and cosines and more 100s of Problems Step by step answer sets clearly identify where you went wrong or right with a problem Get the inside scoop on graphing trig functions Know where to begin and how to solve the most common equations Use trig in practical applications with confidence

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