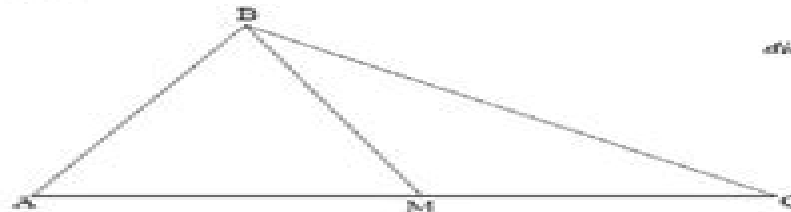


# IB Math Studies - Triangle Trigonometry Practice Key

[233 marks]

The diagram shows a triangle  $ABC$  in which  $AC = 17$  cm,  $M$  is the midpoint of  $AC$ .  
Triangle  $ABM$  is equilateral.



*diagram not to scale*

- 1a. Write down the size of angle  $MCB$ .

[1 mark]

## Markscheme

$30^\circ$  (A1) (C1)

[1 mark]

## Examiners report

Part (a) was generally well answered with many candidates gaining full marks. Some candidates went on to make incorrect assumptions about triangle  $BMC$  being right angled and used Pythagoras theorem incorrectly. Those who used either the Sine rule or the Cosine rule correctly were generally able to substitute correctly and gain at least two marks.

- 1b. Write down the length of  $BM$  in cm.

[1 mark]

## Markscheme

8.5 (cm) (A1)

[1 mark]

## Examiners report

Part (a) was generally well answered with many candidates gaining full marks. Some candidates went on to make incorrect assumptions about triangle  $BMC$  being right angled and used Pythagoras theorem incorrectly. Those who used either the Sine rule or the Cosine rule correctly were generally able to substitute correctly and gain at least two marks.

- 1c. Write down the size of angle  $BMC$ .

[1 mark]

## Markscheme

$120^\circ$  (A1)

[1 mark]

# Ib Math Studies Triangle Trigonometry Practice Key

**Wenbin Ji**



## **Ib Math Studies Triangle Trigonometry Practice Key:**

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and sides is important It is a fundamental topic in mathematics and is often studied in high school and college Overall trigonometry is crucial in solving problems involving triangles and is used extensively in practical applications This book Trigonometry Basics Solving Triangles and Trigonometric Functions is divided in to 8 chapters each delving into specific aspects of this mathematical discipline from foundational concepts to advanced applications *Practice Makes Perfect Trigonometry* Carolyn Wheater,2011-11-11 Sales Handle A no nonsense practical guide to trigonometry providing concise summaries clear model examples and plenty of practice making this workbook the ideal complement to class study or self study preparation for exams or a brush up on rusty skills About the Book Established as a successful practical workbook series with over 30 titles in the language learning category Practice Makes Perfect now provides the same clear concise approach and extensive exercises to key fields within mathematics The key to the Practice Makes Perfect series is the extensive exercises that provide learners with all the practice they need for mastery Not focused on any particular test or exam but complementary to most trigonometry curricula Large trim allows clear presentation of worked problems exercises and explained answers Practice on essential trig concepts sine cosine tangent cotangent secant and cosecant Features No nonsense approach provides clear presentation of content Over 500 exercises and answers covering all aspects of trigonometry Successful series Practice Makes Perfect has sales of 1 million copies in the language category now applied to mathematics Market Audience For students who need to review and practice trigonometry whether to keep up with class work or to prepare for a test or exam such as SAT and ACT in the US or GCSE in the UK International suitability High Benefit to the Customer Workbook is not exam specific yet it provides thorough coverage of the trigonometry skills required in most math tests About the Authors Carolyn Wheater Hawthorne NJ teaches middle school and upper school mathematics at the Nightingale Bamford School in New York City Educated at Marymount Manhattan College and the University of Massachusetts Amherst she has taught math and computer technology for 30 years to students from preschool through college She is a member of National Council of Teachers of Mathematics NCTM and the Association of Teachers in Independent Schools [Trigonometry Formula Sheet and Key Points](#) Abolfazl Nazari,2024-06-02 *Algebra & Trigonometry II Essentials* Editors of REA,2013-01-01 REA s Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Algebra Trigonometry II includes logarithms sequences and series permutations combinations and probability vectors matrices determinants and systems of equations mathematical induction and the binomial theorems partial fractions complex numbers trigonometry trigonometric functions solving triangles inverse trigonometric functions and trigonometric equations and an introduction to analytic geometry **Trigonometry (Speedy Study Guides** LLC Publishing,Speedy Publishing LLC,2014-05 Trigonometry

is the branch of science that studies triangles paying particularly close attention to the measurements between the triangle's points and the angles of the triangle's three corners. Trigonometry is used for a variety of fields including tailoring, landscaping, and architecture. One great reason for people studying trigonometry to have charts is that there are many different formulas used to determine angles and measurements. Having a chart that showed different kinds of triangles and the formulas associated with them is quite handy. *Elements of Geometry and Trigonometry* Adrien Marie Legendre, 1830

**Trigonometry** James Tanton, 2015-08-10 This guide covers the story of trigonometry. It is a swift overview but it is complete in the context of the content discussed in beginning and advanced high school courses. The purpose of these notes is to supplement and put into perspective the material of any course on the subject you may have taken or are currently taking. These notes will be tough going for those encountering trigonometry for the very first time. [Trigonometry: A Right Triangle Approach, Loose-Leaf Version](#) Ron Larson, 2026-02-24 [Trigonometry the Easy Way](#) Douglas Downing, 1984 Explains the principles of trigonometry and includes practice exercises with answers. [Trigonometry for the Practical Worker](#) James Edgar Thompson, 1982

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