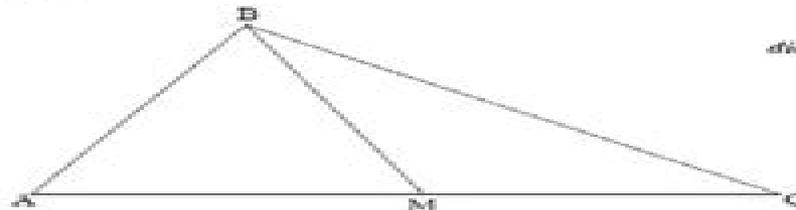


# IB Math Studies - Triangle Trigonometry Practice Key

[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

**Julia Schneider**



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

Forthcoming Books Rose Army,1992-10 *Geometry and Trigonometry (IB SL Math)* Lee Jun Cai, Confused about the various concepts on Geometry and Trigonometry taught in school or simply want more practice questions This book on Geometry and Trigonometry seeks to offer a condensed version of what you need to know for your journey in IB Mathematics SL alongside with detailed worked examples and extra practice questions Tips on certain question types are provided to aid in smoothing the working process when dealing with them **Trigonometry Workbook** Mel Friedman,2013-09-25 NEW from REA Groundbreaking Easy to Use Workbook Series for Students Struggling with Math REA s Ready Set Go Series is a Perfect Study Tool for Exit Exams End of Course Exams or Graduation Exams Many students continue to struggle in high school math courses because they failed to master the basic mathematical skills REA s new Ready Set Go Workbook series takes the confusion out of math helping students raise their grades and score higher on important exams What makes REA s workbooks different For starters students will actually like using them Here s why Math is explained in simple language in an easy to follow style The workbooks allow students to learn at their own pace and master the subject 15 lessons break down the material into the basics Each lesson is fully devoted to a key math concept and includes many step by step examples Paced instruction with drills and quizzes reinforces learning The innovative Math Flash feature offers helpful tips and strategies in each lesson including advice on common mistakes to avoid Skill scorecard measures the student s progress and success Every answer to every question in every test is explained in full detail A final exam is included so students can test what they ve learned When students apply the skills they ve mastered in our workbooks they can do better in class raise their grades and score higher on the all important end of course graduation and exit exams Some of the math topics covered in the Ready Set Go Trigonometry Workbook include Trigonometric Ratios Graphing Points and Angles Special Angles Inverse Trigonometric Values Solving Triangles Solving Four Sided Figures Solving Trigonometric Equations and more Whether used in a classroom for home or self study or with a tutor this workbook gets students ready for important math tests and exams set to take on new challenges and helps them go forward in their studies *Trigonometry (IB Math)* Lee Jun Cai, Confused about the various concepts on Vectors taught in school This book on Trigonometry seeks to offer a condensed version of what you need to know for your journey in IB Mathematics HL alongside with detailed worked examples and extra practice questions Tips on certain question types are provided to aid in smoothing the working process when dealing with them This chapter assumes the reader has IGCSE Add Math Trigo background *Schaum's Outline of Trigonometry* Robert E. Moyer,1998-12-21 Updated to match the emphasis in today s courses this clear study guide focuses entirely on plane trigonometry It summarizes the geometry properties and theorems that prove helpful for solving trigonometry problems Also where solving problems requires knowledge of algebra the algebraic processes and the basic trigonometric relations are explained carefully Hundreds of problems solved step by step speed comprehension make important points memorable and

teach problem solving skills Many additional problems with answers help reinforce learning and let students gauge their progress as they go **Solving Triangles** Marilyn Occhiogrosso,2007-09-01 This easy to use packet is full of stimulating activities that will give your students a solid introduction to solving triangles A variety of puzzles and self check formats will challenge students to think creatively as they work to build their trigonometric skills Each page begins with a clear explanation of a featured trigonometric topic providing extra review and reinforcement **Schaum's Outline of Trigonometry, Sixth Edition** Robert E. Moyer, Frank Ayres,2017-11-03 Tough Test Questions Missed Lectures Not Enough Time Textbook too Pricey Fortunately there s Schaum s This all in one package includes more than 600 fully solved problems examples and practice exercises to sharpen your problem solving skills Plus you will have access to 20 detailed videos featuring math instructors who explain how to solve the most commonly tested problems it s just like having your own virtual tutor You ll find everything you need to build confidence skills and knowledge for the highest score possible More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format Helpful tables and illustrations increase your understanding of the subject at hand Schaum s Outline of Trigonometry Sixth Edition features Updated content to match the latest curriculum Over 600 problems with step by step solutions An accessible outline format for quick and easy review Clear explanations for all linear algebra concepts Access to revised Schaums com website with access to 20 problem solving videos and more **Trigonometry: Notes, Problems And Exercises** Roger Delbourgo,2016-12-15 This book provides a thorough intermediate level yet concise course in Trigonometry for use in colleges There are 37 short chapters each treating one specific theme and containing worked examples and easy exercises Central to the work are the trigonometric properties of triangle ABC and its associated points A small appendix contains some Spherical Trigonometry with interesting problems related to the earth a larger one for enthusiastic students provides further lengthier exercises for extra practice and full solutions are supplied in the conclusion Compared with other books on Trigonometry this book covers the vast spread of topics Especially the author reminds readers of the historical importance of theorems enunciated by such contributors as Ptolemy Euler Morley etc Their names not only invite the readers to appreciate the beauty of these results but also direct readers to mystery unknown **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* Ron Larson,2021 **Top Shelf** Walch Publishing,2003 Covers sum and difference formulas trigonometric equations inverse trigonometric functions and more Builds concept development with challenging problems nd exercises Meets National Mathematics standards

*Trigonometry Basics: Solving Triangles and Trigonometric Functions* Mamta Singh, 2023-12 Trigonometry is a branch of mathematics that studies relationships between angles and sides of triangles. It involves sine, cosine, and tangent concepts which calculate angles and sides in various scenarios. Trigonometry has applications in fields such as physics, engineering, and architecture where understanding the relationships between angles 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 into 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 Author*: 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 the 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

*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      **Key to Trigonometry for Beginners. ... New edition** Isaac TODHUNTER,1876      Elements of Geometry and Trigonometry Adrien Marie Legendre,1830      **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      **Introduction to Trigonometry** Allyn J. Washington,1975

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