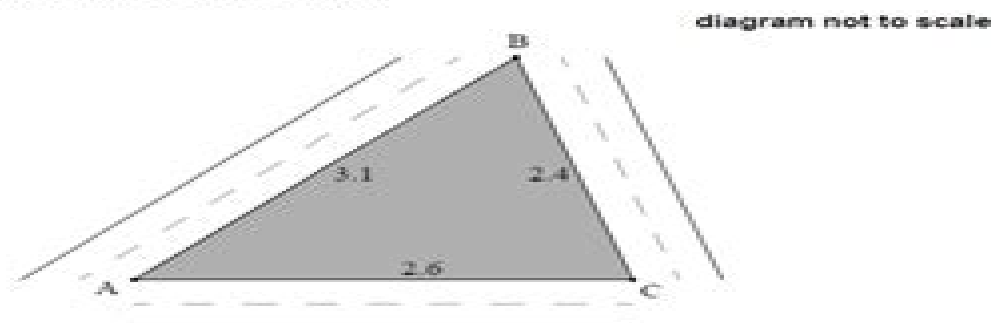


Trig Test Review [91 marks]

Three airport runways intersect to form a triangle, ABC. The length of AB is 3.1 km, AC is 2.6 km, and BC is 2.4 km.



A company is hired to cut the grass that grows in triangle ABC, but they need to know the area.

- 1a. Find the size, in degrees, of angle BAC. [3 marks]
- 1b. Find the area, in km^2 , of triangle ABC. [3 marks]

The volume of a hemisphere, V , is given by the formula

$$V = \sqrt{\frac{4S^3}{243\pi}},$$

where S is the total surface area.

The total surface area of a given hemisphere is 350 cm^2 .

- 2a. Calculate the volume of this hemisphere in cm^3 . [3 marks]
Give your answer correct to **one decimal place**.
- 2b. Write down your answer to part (a) correct to the nearest integer. [1 mark]
- 2c. Write down your answer to **part (b)** in the form $a \times 10^k$, where $1 \leq a < 10$ and $k \in \mathbb{Z}$. [2 marks]

Ib Math HL Trigonometry Practice Problems

David S. Kahn



Ib Math HL Trigonometry Practice Problems:

Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-09-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

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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

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