

THIS COSINE LAW* WORD PROBLEMS

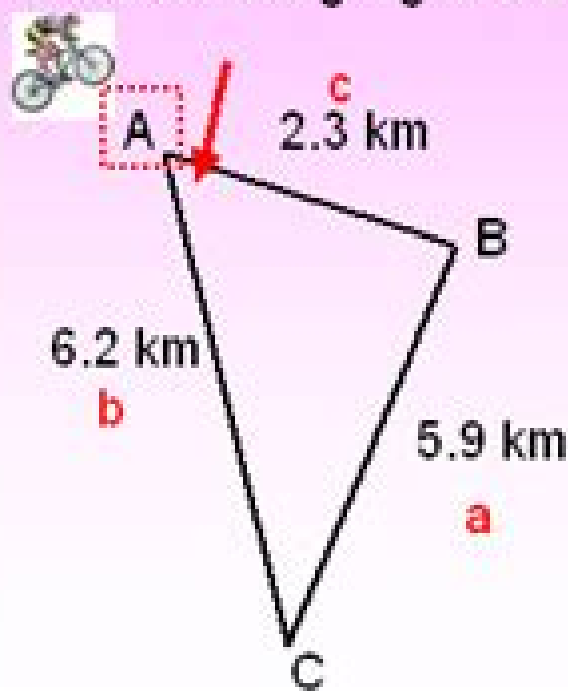
$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

EXAMPLE 2

A bicycle race follows a triangular course. The three legs of the race are, in order, 2.3 km, 5.9 km and 6.2 km. Find the *angle* between the starting leg to the finishing leg to the nearest degree.



$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$(5.9)^2 = (6.2)^2 + (2.3)^2 - 2(6.2)(2.3) \cos A$$

$$34.81 = 38.44 + 5.29 - 28.52 \cos A$$

$$34.81 = 43.73 - 28.52 \cos A$$

$$34.81 - 43.73 = -28.52 \cos A$$

$$\frac{-8.92}{-28.52} = \frac{-28.52 \cos A}{-28.52}$$

$$0.3128 = \cos A$$

$$\cos^{-1}(0.3128) = A$$

$$72^\circ = A$$

The angle between the start and finishing leg is 72°

Math Word Problems Using Cosine Law

J Elliott



Math Word Problems Using Cosine Law:

This book delves into Math Word Problems Using Cosine Law. Math Word Problems Using Cosine Law is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Math Word Problems Using Cosine Law, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Math Word Problems Using Cosine Law
 - Chapter 2: Essential Elements of Math Word Problems Using Cosine Law
 - Chapter 3: Math Word Problems Using Cosine Law in Everyday Life
 - Chapter 4: Math Word Problems Using Cosine Law in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Math Word Problems Using Cosine Law. The first chapter will explore what Math Word Problems Using Cosine Law is, why Math Word Problems Using Cosine Law is vital, and how to effectively learn about Math Word Problems Using Cosine Law.
 3. In chapter 2, this book will delve into the foundational concepts of Math Word Problems Using Cosine Law. The second chapter will elucidate the essential principles that must be understood to grasp Math Word Problems Using Cosine Law in its entirety.
 4. In chapter 3, this book will examine the practical applications of Math Word Problems Using Cosine Law in daily life. This chapter will showcase real-world examples of how Math Word Problems Using Cosine Law can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Math Word Problems Using Cosine Law in specific contexts. The fourth chapter will explore how Math Word Problems Using Cosine Law is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Math Word Problems Using Cosine Law. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Math Word Problems Using Cosine Law.

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Math Word Problems Using Cosine Law Introduction

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