

### Section 10.1: Right Triangles

#### Key Words:

- hypotenuse** is the longest side.
- adjacent** is the side next to the angle.
- opposite** is the side opposite the angle.

Remember: SOH-CAH-TOA

SOH:  $\sin(\theta) = \frac{\text{opposite}}{\text{hypotenuse}}$

CAH:  $\cos(\theta) = \frac{\text{adjacent}}{\text{hypotenuse}}$

TOA:  $\tan(\theta) = \frac{\text{opposite}}{\text{adjacent}}$



#### Key Facts:

- In a right triangle, the two acute angles are complementary.
- In a right triangle, the two legs are perpendicular.
- In a right triangle, the two legs are perpendicular.

#### Example 1: Find the missing side.

In the right triangle below, find the unknown side.

a.

What is the missing side?

b.

What is the missing side?

c.

What is the missing side?

#### Example 2: Find the missing angle.

In the right triangle below, find the unknown angle.

a.

What is the missing angle?

b.

What is the missing angle?

c.

What is the missing angle?

# Compass Trigonometry Study Guide

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## **Compass Trigonometry Study Guide:**

The book delves into Compass Trigonometry Study Guide. Compass Trigonometry Study Guide is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Compass Trigonometry Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Compass Trigonometry Study Guide
    - Chapter 2: Essential Elements of Compass Trigonometry Study Guide
    - Chapter 3: Compass Trigonometry Study Guide in Everyday Life
    - Chapter 4: Compass Trigonometry Study Guide in Specific Contexts
    - Chapter 5: Conclusion
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