

# Sum and Difference Identities

Classify each statement as true or false, then explain your reasoning.

\_\_\_\_\_ 1)  $\sin(90^\circ) = \sin(90^\circ) + \sin(0^\circ)$

\_\_\_\_\_ 3)  $\sin(30^\circ) + \sin(60^\circ) = \sin(90^\circ)$

\_\_\_\_\_ 2)  $\cos(90^\circ) = \cos(90^\circ) + \cos(0^\circ)$

\_\_\_\_\_ 4)  $\tan(45^\circ) + \tan(45^\circ) = \tan(90^\circ)$

From these examples, recognize that the \_\_\_\_\_ property does NOT apply when using the trigonometric functions.

\_\_\_\_\_ property does NOT apply

...So what rules do apply?

## Sum and Difference Identities

$$\sin(A + B) = \sin A \cos B + \cos A \sin B$$

$$\sin(A - B) = \sin A \cos B - \cos A \sin B$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

$$\cos(A - B) = \cos A \cos B + \sin A \sin B$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

**A. Demonstrate** Demonstrate that each identity works by substituting the given values for A and B.

Sample:  $\cos(A + B) = \cos A \cos B - \sin A \sin B$ , when  $A = \frac{\pi}{4}$  and  $B = \frac{\pi}{4}$

Write the identity:  $\cos(A + B) = \cos A \cos B - \sin A \sin B$

Substitute:  $\cos(\frac{\pi}{4} + \frac{\pi}{4}) = \cos \frac{\pi}{4} \cos \frac{\pi}{4} - \sin \frac{\pi}{4} \sin \frac{\pi}{4}$

Evaluate:  $\cos(\frac{\pi}{2}) = (\frac{1}{2}) \cdot (\frac{\sqrt{2}}{2}) - (\frac{\sqrt{2}}{2}) \cdot (\frac{1}{2})$

Simplify:  $0 = \frac{\sqrt{2}}{4} - \frac{\sqrt{2}}{4}$

$0 = 0 \checkmark$

5)  $\cos(A - B) = \cos A \cos B + \sin A \sin B$ , when  $A = \frac{\pi}{4}$  and  $B = \frac{\pi}{4}$

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**Jianjun Gao**



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## **Table of Contents Hs Mathematics Unit 05 Lesson 1 Answer Key**

1. Understanding the eBook Hs Mathematics Unit 05 Lesson 1 Answer Key
  - The Rise of Digital Reading Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hs Mathematics Unit 05 Lesson 1 Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Personalized Recommendations
  - Hs Mathematics Unit 05 Lesson 1 Answer Key User Reviews and Ratings
  - Hs Mathematics Unit 05 Lesson 1 Answer Key and Bestseller Lists

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  - Hs Mathematics Unit 05 Lesson 1 Answer Key Public Domain eBooks
  - Hs Mathematics Unit 05 Lesson 1 Answer Key eBook Subscription Services
  - Hs Mathematics Unit 05 Lesson 1 Answer Key Budget-Friendly Options
6. Navigating Hs Mathematics Unit 05 Lesson 1 Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Hs Mathematics Unit 05 Lesson 1 Answer Key Compatibility with Devices
  - Hs Mathematics Unit 05 Lesson 1 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Highlighting and Note-Taking Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Interactive Elements Hs Mathematics Unit 05 Lesson 1 Answer Key
8. Staying Engaged with Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hs Mathematics Unit 05 Lesson 1 Answer Key
9. Balancing eBooks and Physical Books Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hs Mathematics Unit 05 Lesson 1 Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Setting Reading Goals Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Fact-Checking eBook Content of Hs Mathematics Unit 05 Lesson 1 Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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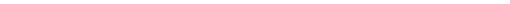
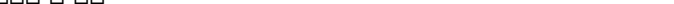
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