

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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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
5. Accessing Hs Mathematics Unit 05 Lesson 1 Answer Key Free and Paid eBooks

- 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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