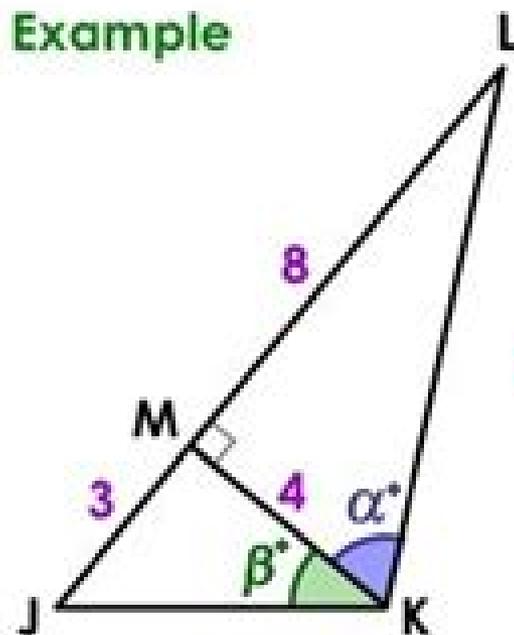


NOTE

Applications of Trigonometric Addition Formulae

Example



Find any
unknown
sides:

$$JK = \sqrt{3^2 + 4^2} = \sqrt{25} = 5$$

$$KL = \sqrt{8^2 + 4^2} = \sqrt{80} = 4\sqrt{5}$$

$$\therefore \cos \alpha = \frac{4}{4\sqrt{5}} = \frac{1}{\sqrt{5}} \quad \sin \alpha = \frac{8}{4\sqrt{5}} = \frac{2}{\sqrt{5}}$$

$$\cos(\alpha - \beta) = \cos \alpha \cos \beta + \sin \alpha \sin \beta$$

$$= \frac{1}{\sqrt{5}} \times \frac{4}{5} + \frac{2}{\sqrt{5}} \times \frac{3}{5}$$

$$= \frac{10}{5\sqrt{5}} = \frac{2}{\sqrt{5}} = \underline{\underline{\frac{2\sqrt{5}}{5}}}$$

From the diagram, show that

$$\cos(\alpha^\circ - \beta^\circ) = \frac{2\sqrt{5}}{5}$$

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A Gutmann



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Table of Contents Advanced Trigonometry Questions And Answers

1. Understanding the eBook Advanced Trigonometry Questions And Answers
 - The Rise of Digital Reading Advanced Trigonometry Questions And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Trigonometry Questions And Answers
 - 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 Advanced Trigonometry Questions And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Trigonometry Questions And Answers
 - Personalized Recommendations
 - Advanced Trigonometry Questions And Answers User Reviews and Ratings
 - Advanced Trigonometry Questions And Answers and Bestseller Lists
5. Accessing Advanced Trigonometry Questions And Answers Free and Paid eBooks
 - Advanced Trigonometry Questions And Answers Public Domain eBooks
 - Advanced Trigonometry Questions And Answers eBook Subscription Services
 - Advanced Trigonometry Questions And Answers Budget-Friendly Options
6. Navigating Advanced Trigonometry Questions And Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Advanced Trigonometry Questions And Answers Compatibility with Devices
 - Advanced Trigonometry Questions And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advanced Trigonometry Questions And Answers
 - Highlighting and Note-Taking Advanced Trigonometry Questions And Answers
 - Interactive Elements Advanced Trigonometry Questions And Answers
8. Staying Engaged with Advanced Trigonometry Questions And Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advanced Trigonometry Questions And Answers
9. Balancing eBooks and Physical Books Advanced Trigonometry Questions And Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advanced Trigonometry Questions And Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Advanced Trigonometry Questions And Answers
- Setting Reading Goals Advanced Trigonometry Questions And Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Advanced Trigonometry Questions And Answers
- Fact-Checking eBook Content of Advanced Trigonometry Questions And Answers
 - 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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