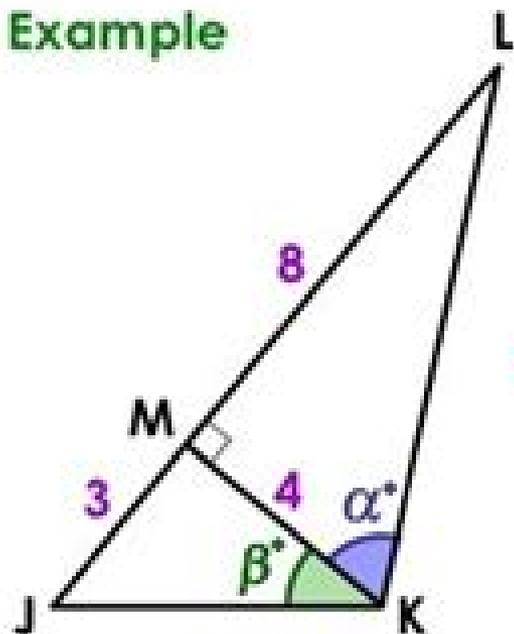


NOTE

## 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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**SJ Ball**



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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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