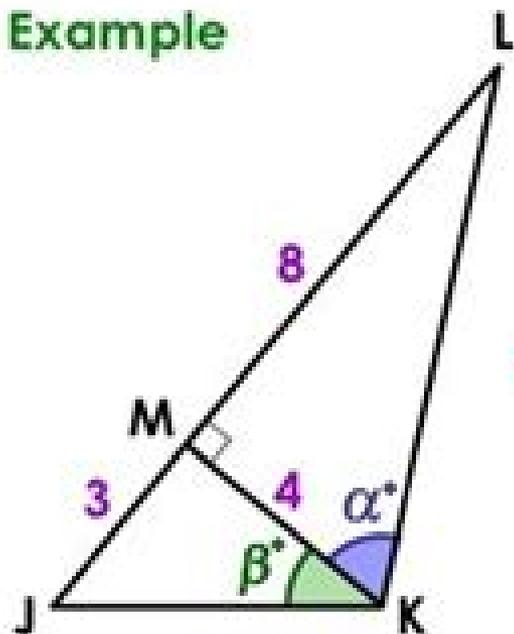


NOTE

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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103 Trigonometry Problems Titu Andreescu, Zuming Feng, 2004-12-15 Problem solving tactics and practical test taking techniques provide in depth enrichment and preparation for various math competitions Comprehensive introduction to trigonometric functions their relations and functional properties and their applications in the Euclidean plane and solid geometry A cogent problem solving resource for advanced high school students undergraduates and mathematics teachers engaged in competition training

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