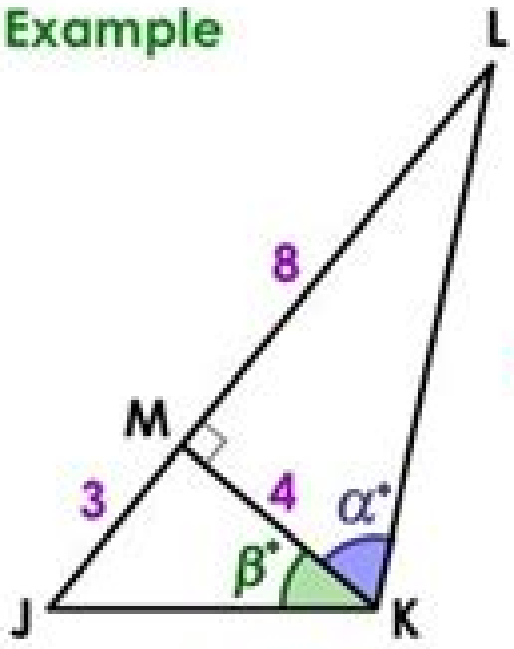
NOTE

Applications of Trigonometric Addition Formulae

Example



From the diagram, show that

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

Find any unknown sides:

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

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

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

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

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

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

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Ian Pickup

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