

## TRIGONOMETRIC IDENTITIES AND EQUATIONS

1. The angles  $\alpha$  and  $\beta$  are such that  $\sin \alpha = \frac{3}{5}$  and  $\cos \beta = \frac{4}{5}$ . Find  $\sin(\alpha + \beta)$  and  $\cos(\alpha + \beta)$ .

$\sin \alpha = \frac{3}{5}$ ,  $\cos \beta = \frac{4}{5}$ .  $\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta$ .  $\cos(\alpha + \beta) = \cos \alpha \cos \beta - \sin \alpha \sin \beta$ .  $\sin \alpha = \frac{3}{5}$ ,  $\cos \alpha = \frac{4}{5}$ .  $\sin \beta = \frac{3}{4}$ ,  $\cos \beta = \frac{4}{5}$ .

2. The angle  $\alpha$  is such that  $\sin \alpha = \frac{3}{5}$  and  $\cos \alpha = \frac{4}{5}$ . Find  $\sin(2\alpha)$  and  $\cos(2\alpha)$ .

$\sin 2\alpha = 2 \sin \alpha \cos \alpha = 2 \cdot \frac{3}{5} \cdot \frac{4}{5} = \frac{24}{25}$ .  $\cos 2\alpha = \cos^2 \alpha - \sin^2 \alpha = \frac{16}{25} - \frac{9}{25} = \frac{7}{25}$ .

3. The angle  $\alpha$  is such that  $\sin \alpha = \frac{3}{5}$  and  $\cos \alpha = \frac{4}{5}$ . Find  $\sin(\frac{\alpha}{2})$  and  $\cos(\frac{\alpha}{2})$ .

$\sin \frac{\alpha}{2} = \sqrt{\frac{1 - \cos \alpha}{2}} = \sqrt{\frac{1 - \frac{4}{5}}{2}} = \sqrt{\frac{1}{10}} = \frac{1}{\sqrt{10}}$ .  $\cos \frac{\alpha}{2} = \sqrt{\frac{1 + \cos \alpha}{2}} = \sqrt{\frac{1 + \frac{4}{5}}{2}} = \sqrt{\frac{9}{10}} = \frac{3}{\sqrt{10}}$ .

4. The angle  $\alpha$  is such that  $\sin \alpha = \frac{3}{5}$  and  $\cos \alpha = \frac{4}{5}$ . Find  $\sin(\frac{\alpha}{4})$  and  $\cos(\frac{\alpha}{4})$ .

$\sin \frac{\alpha}{4} = \sqrt{\frac{1 - \cos \frac{\alpha}{2}}{2}} = \sqrt{\frac{1 - \frac{3}{\sqrt{10}}}{2}}$ .  $\cos \frac{\alpha}{4} = \sqrt{\frac{1 + \cos \frac{\alpha}{2}}{2}} = \sqrt{\frac{1 + \frac{1}{\sqrt{10}}}{2}}$ .

5. The angle  $\alpha$  is such that  $\sin \alpha = \frac{3}{5}$  and  $\cos \alpha = \frac{4}{5}$ . Find  $\sin(\frac{\alpha}{8})$  and  $\cos(\frac{\alpha}{8})$ .

$\sin \frac{\alpha}{8} = \sqrt{\frac{1 - \cos \frac{\alpha}{4}}{2}}$ .  $\cos \frac{\alpha}{8} = \sqrt{\frac{1 + \cos \frac{\alpha}{4}}{2}}$ .  $\sin \frac{\alpha}{8} = \sqrt{\frac{1 - \sqrt{\frac{1 - \frac{3}{\sqrt{10}}}{2}}}{2}}$ .  $\cos \frac{\alpha}{8} = \sqrt{\frac{1 + \sqrt{\frac{1 + \frac{1}{\sqrt{10}}}{2}}}{2}}$ .

6. The angle  $\alpha$  is such that  $\sin \alpha = \frac{3}{5}$  and  $\cos \alpha = \frac{4}{5}$ . Find  $\sin(\frac{\alpha}{16})$  and  $\cos(\frac{\alpha}{16})$ .

# Tkam Chapter Questions And Answers Quizlet Chapter 15

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