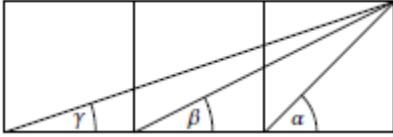


Q1) What is the period of $y = \cos(6x) + \sin(4x)$?

Q2) Find an algebraic expression for $\tan(\sin^{-1}x)$ for $-1 < x < 1$.

Q3) From the figure below, show that $\alpha = \beta + \gamma$.



Q4) Is $\tan^{-1}\alpha + \tan^{-1}\beta = \tan^{-1}\frac{\alpha+\beta}{1-\alpha\beta}$ an identity?

Q5) Solve $\cos(3\theta) = \frac{1}{2}$

Q6) Solve $2 \sin(\theta) - 3 \cos(\theta) = 1$

Q7) Solve $\tan(\theta) + \cot(\theta) = 2$

Q8) Solve $2\cos^2(\theta) + 3 \sin(\theta) = 0$