

Question 3

The reflex angle θ is such that $\cos \theta = k$, where $0 < k < 1$

i) Find an expression, in terms of k , for

a) $\sin \theta$

b) $\tan \theta$

ii) Explain why $\sin 2\theta$ is negative for $0 < k < 1$

The graph for cosine $y = \cos x$



$$k = \cos \theta, \quad 0 < k < 1 \rightarrow \theta \text{ is between } \frac{3\pi}{2} \text{ and } 2\pi$$

i) a) $\sin \theta$ and $\cos \theta$ are connected by $\sin^2 \theta + \cos^2 \theta = 1$

$$\sin^2 \theta + k^2 = 1 \rightarrow \sin^2 \theta = 1 - k^2$$

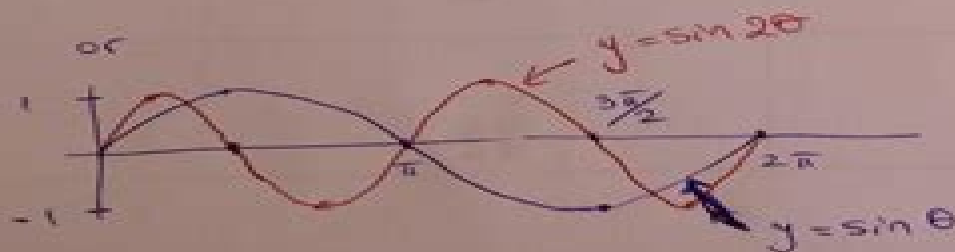
$$\sin \theta = \pm \sqrt{1 - k^2}$$

θ reflex (θ between $\frac{3\pi}{2}$ and 2π) $\rightarrow \sin \theta < 0$

$$\therefore \sin \theta = -\sqrt{1 - k^2}$$

b) $\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{-\sqrt{1 - k^2}}{k} = -\frac{\sqrt{1 - k^2}}{k}$

ii) $\sin 2\theta = 2 \sin \theta \cos \theta = -k \sqrt{1 - k^2} \quad \left| \begin{array}{l} K > 0 \\ \rightarrow \sin 2\theta < 0 \end{array} \right.$



For $0 < \theta < 2\pi$ the curve will be seen twice for $y = \sin 2\theta$

It's visible from the graph that $\sin 2\theta < 0$ for

$\frac{3\pi}{2} < \theta < 2\pi$ (when θ is reflex & $0 < k < 1$)

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