# Answer on Question \#77296 - Math - Algebra Question 

The diagram shows one solution to the equation $3-\sin 0=5 \sin 0$. Find the complete solution of the equation.

## Solution

$3-\sin \theta=5 \sin \theta \rightarrow \quad \sin \theta=\frac{1}{2}$.
$\theta=\frac{\pi}{6}+2 \pi n$ or $\theta=\frac{5 \pi}{6}+2 \pi n, \quad n=0, \pm 1, \pm 2, \ldots$
Answer: $\theta=\frac{\pi}{6}+2 \pi n, \quad \theta=\frac{5 \pi}{6}+2 \pi n, n=0, \pm 1, \pm 2, \ldots$

