## Answer on Question #57362 - Math – Trigonometry

Question

Solve root  $3 \tan \theta = 1$ .

## Solution

 $\sqrt{3}$  tan  $\theta = 1$ ,

 $\tan \theta = \frac{1}{\sqrt{3}}$ 

 $\theta = \arctan \frac{1}{\sqrt{3}} + \pi n = \frac{\pi}{6} + n\pi = \left(n + \frac{1}{6}\right)\pi, \ n \in \mathbb{Z} \text{ (that is, } n \text{ is integer).}$ Answer:  $\theta = \frac{\pi}{6} + n\pi, \ n \in \mathbb{Z}.$ 

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