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Question 2:

Determine the fundamental period of the sinusoidal sequence x[n] = A sin(ω0n) for the following values of the angular frequency ω0

1. 0.6π b) 0.28π c) 0.45π d) 0.55π e) 0.65π

**Solution**

1. **0.6** π  
   W0N = 2 π K 🡺 N =

* **N = ; for K = 3 , N = 10**

1. 0.28π  
   W0N = 2 π K 🡺 N =

* **N = ; for K = 7 , N = 50**

1. 0.55π  
   W0N = 2 π K 🡺 N =

* **N = ; for K = 11 , N = 40**

1. 0.65π  
   W0N = 2 π K 🡺 N =

* **N = ; for K = 13 , N = 40**