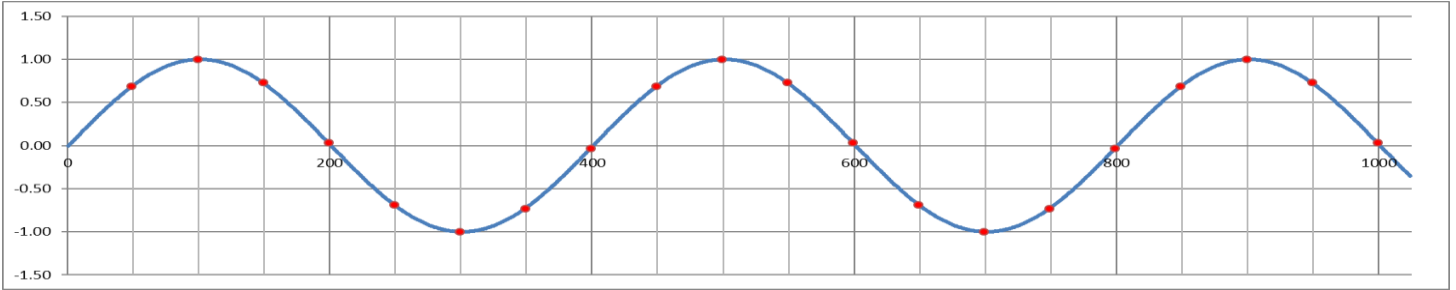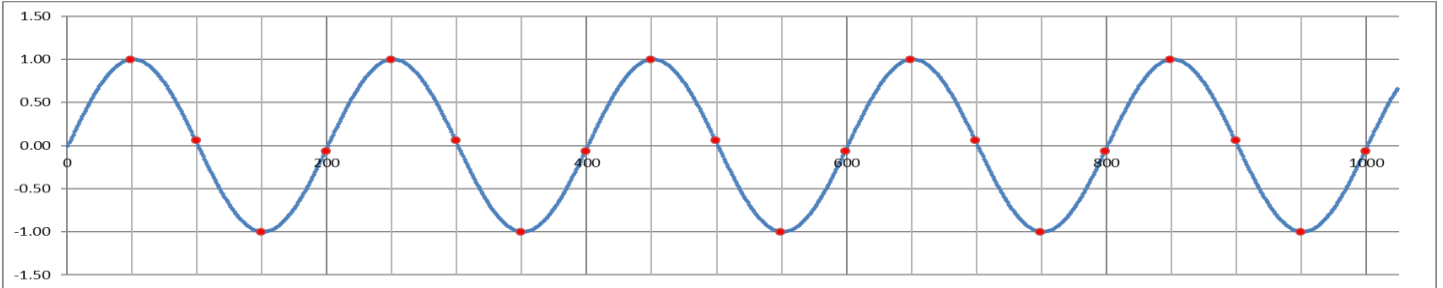The input sinusoid shown is being sampled at 20 kHz (once every 50 us). Now reconstruct a sinusoid from the sampled data and describe the frequency of your reconstructed sinusoid.
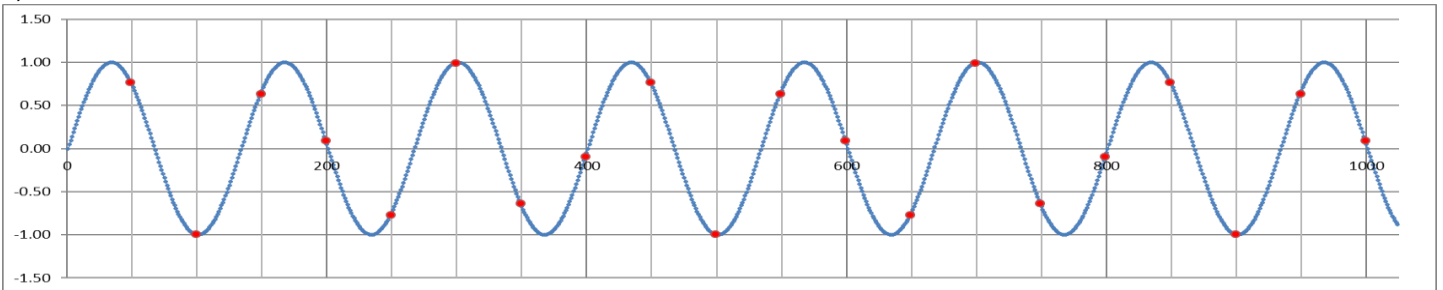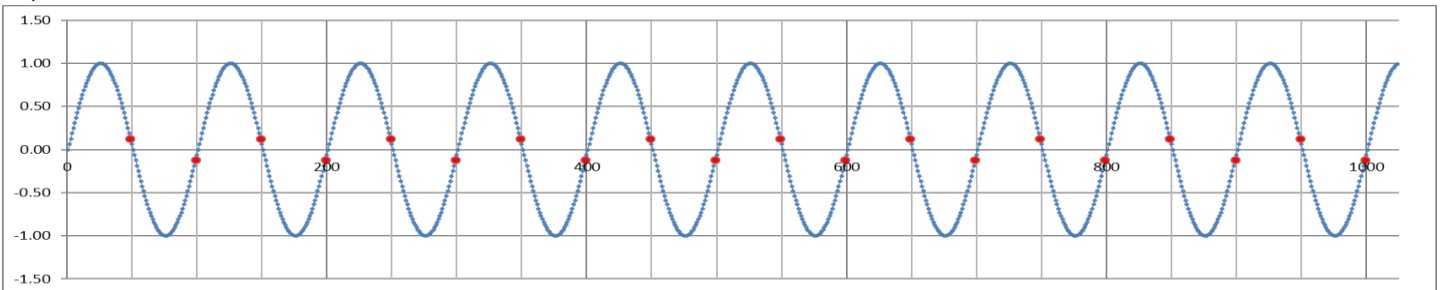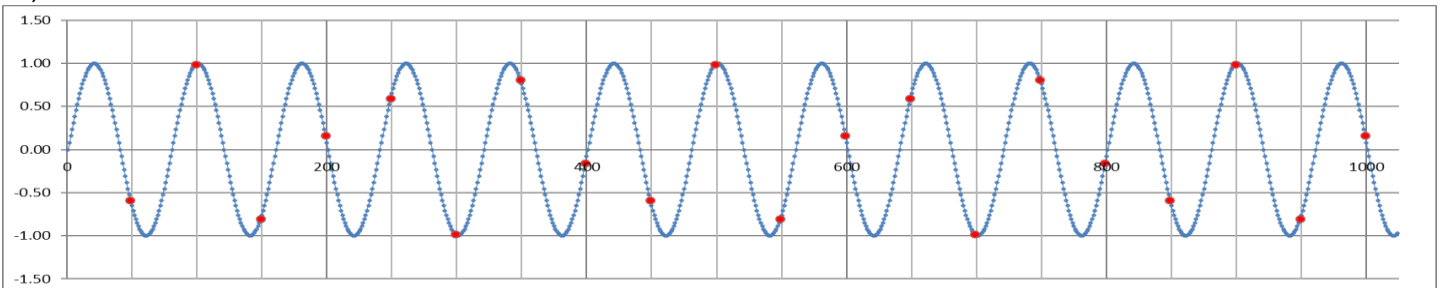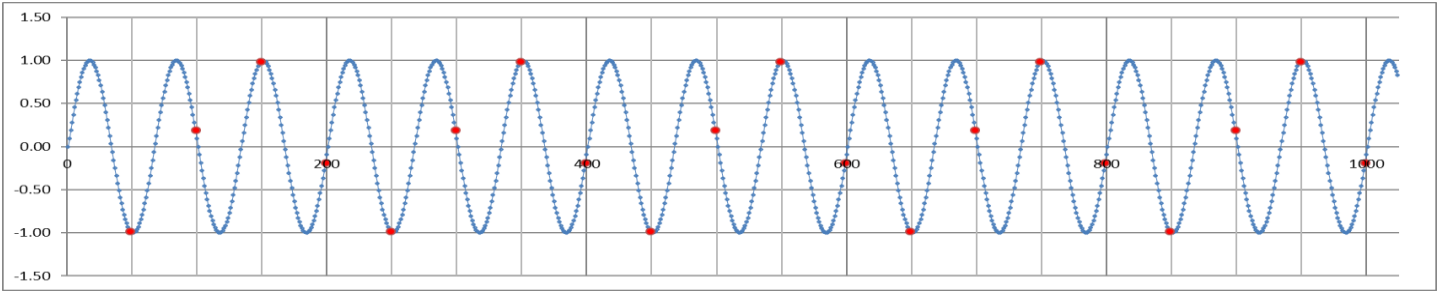
2,500Hz

5,000hz

7,500hz

10,000hz

12,500hz

15,000hz

17,500hz
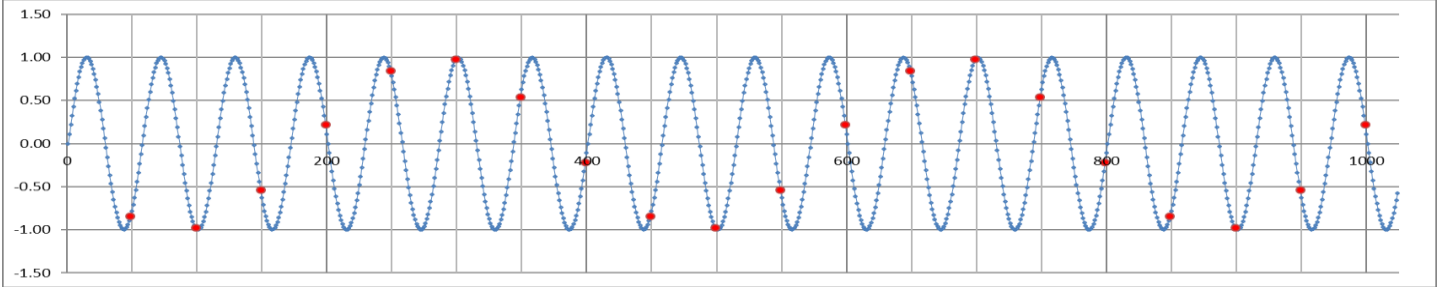
20,000hz

22,500hz

25,000hz