**Tutorial Week 3**

A continuous signal is defined as:

is sampled using a sampling frequency of rate to form a discrete signal

1. Write out a functional expression for
2. Tabulate exactly one fundamental period of
3. Compute the power of the signal
4. Draw exactly one period of the two-sided power spectra of
5. The discrete signal above is passed through a Digital Filter that has impulse response where

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to produce an output Determine a functional expression for *.*