



1. The half-tone pattern in this image could be minimized with Fourier transform filtering. (T/F)

Given the data set parameters:

Sample Rate=1000 samples/sec

Number of Samples = 5,000

2. The lowest frequency in a Fourier transform of this data set would be

- a. 1000 Hz
- b. 500 Hz
- c. 5 Hz
- d. 0.2 Hz
- e. none of the above

3. The highest frequency in a Fourier transform of this data set would be

- a. 1000 Hz
- b. 500 Hz
- c. 5 Hz
- d. 0.2 Hz
- e. none of the above

4. The frequency resolution or spacing of this data set would be:

- a. 1000 Hz
- b. 500 Hz
- c. 5 Hz
- d. 0.2 Hz
- e. none of the above

5. If the input signal to this data set was a 100 Hz sine wave there would be no amplitude ambiguity of the input signal frequency content in the Fourier transform.

- a. True
- b. False

