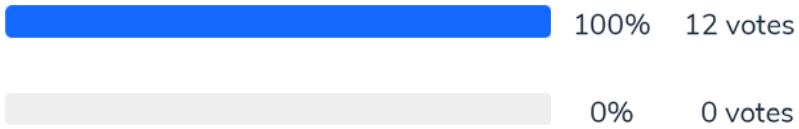
DOS2020_Vibrations_sources

Number of participants: 12

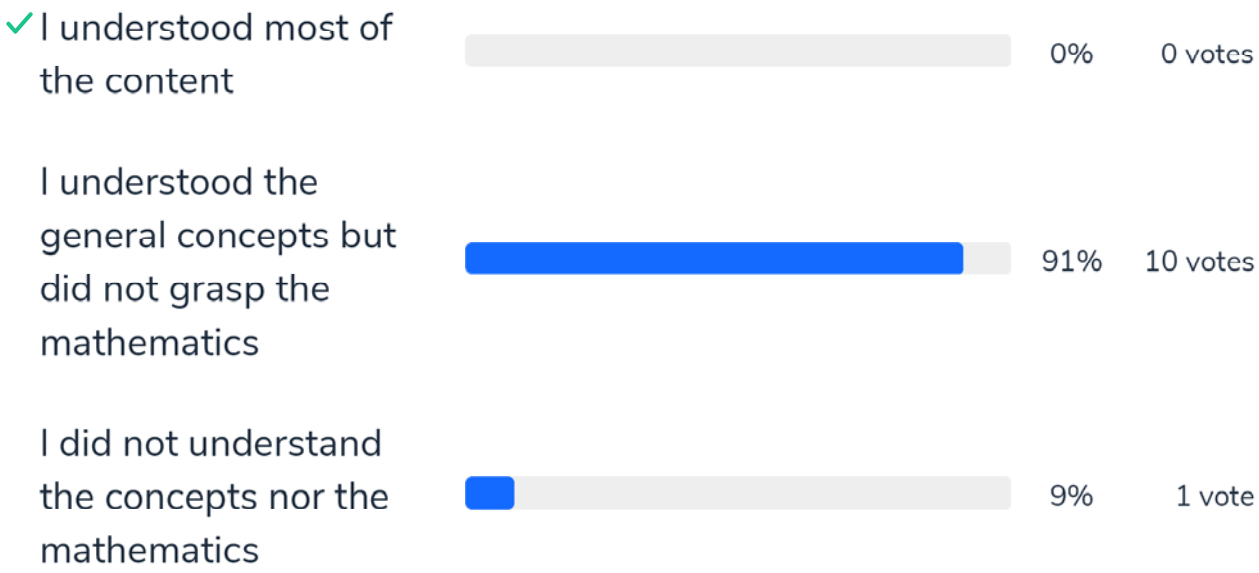
1

I have watched the video on Dynamics excitations / Vibration sources and response spectra before coming to the class



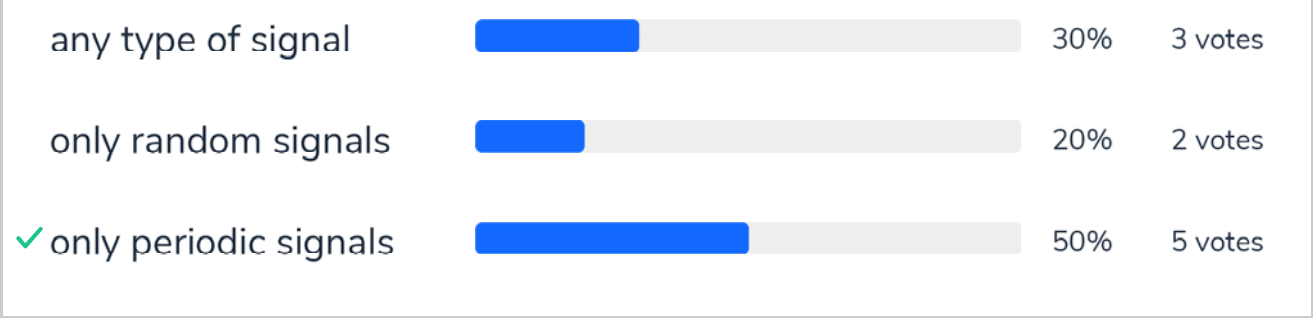
2

After watching the video I think that



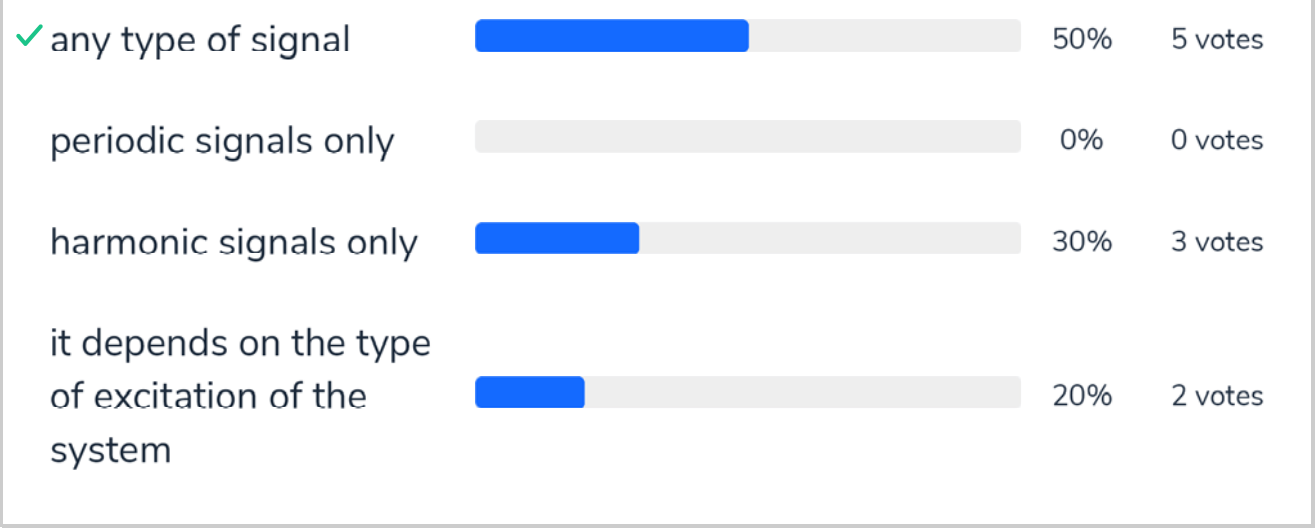
3

The discrete Fourier transform applies to



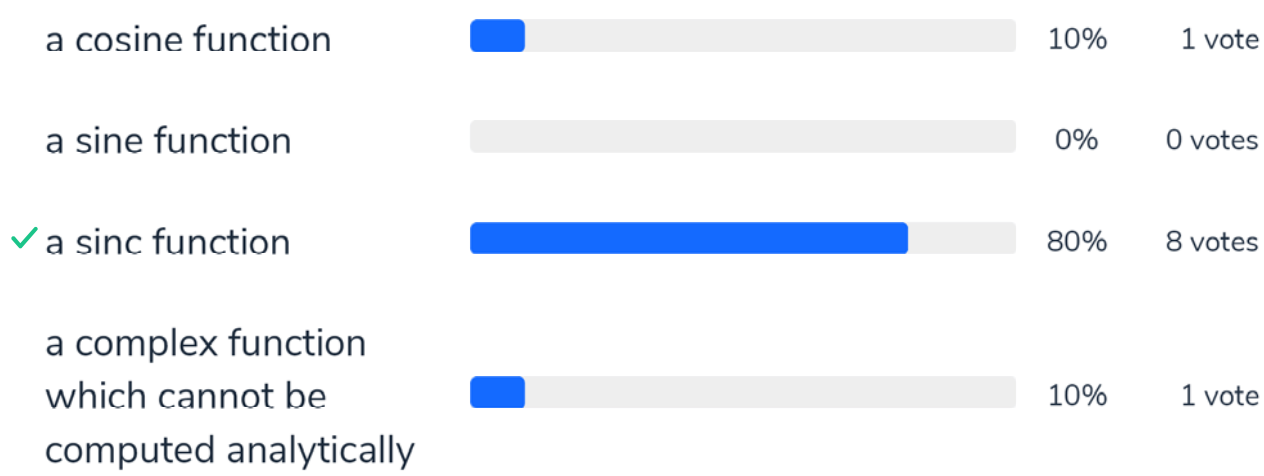
4

The continuous Fourier transform applies to



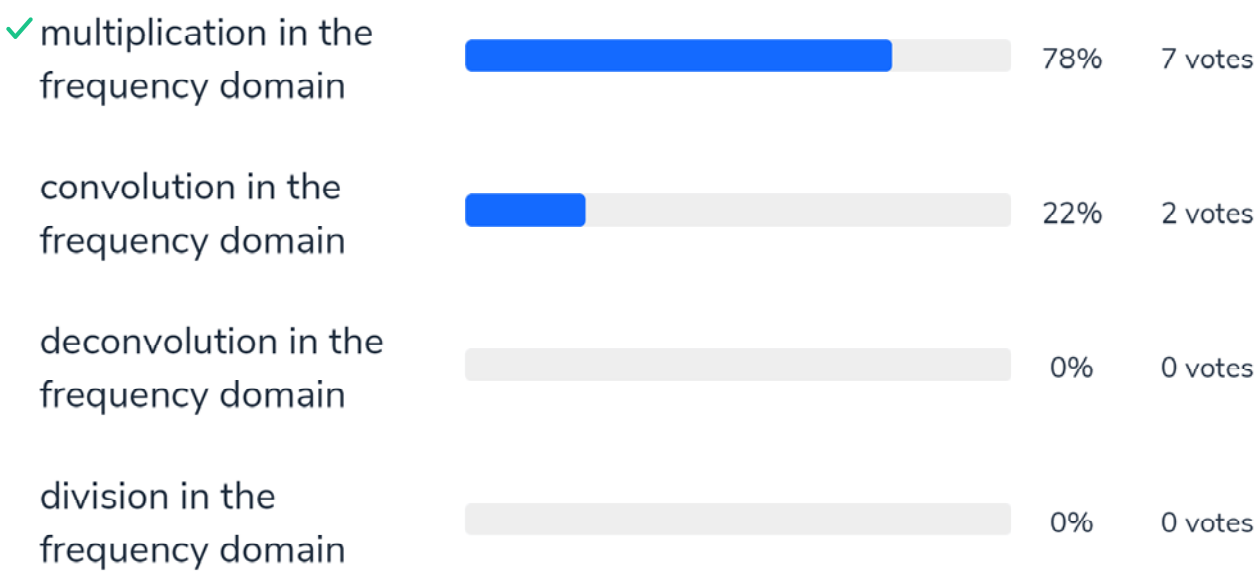
5

The continuous Fourier transform of a rectangle (pulse) is



6

Convolution in the time domain corresponds to



7

Aliasing happens when

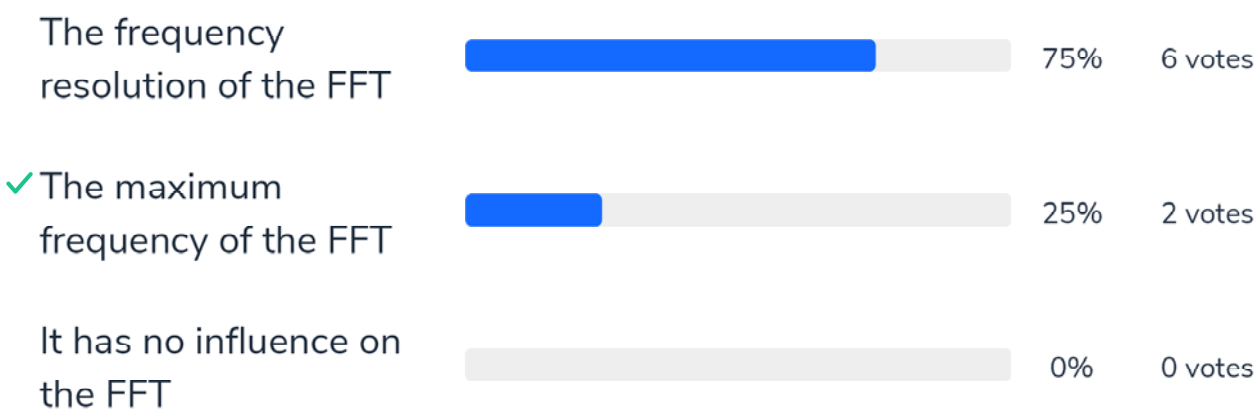
The sampling frequency is too high with respect to the frequency content of the signal		33%	3 votes
✓ The sampling frequency is too low with respect to the frequency content of the signal		67%	6 votes

8

When using Fast Fourier Transform on sampled signals, you can increase the frequency resolution by

9

When using FFT, the time step of the sample signal has an influence on



10

Suppose the sampling frequency of the accelerometer on your smartphone is 200 Hz. Up to what frequency can you measure acceleration signals ?