

## Fourier Series and its Properties

In these tasks we've seen the properties of the Fourier series using MATLAB. firstly, we worked on the trigonometric Fourier series then we've done tasks to understand the Fourier series properties i.e., linearity, time shifting, time scaling, time reversal etc. we've seen that if we increase the terms the result became smoother but the MATLAB compiler will take more time to respond.