

EE 202 - Mathematical Techniques in Electrical Engineering

LAB 4

** Find solutions of the following questions in Matlab:

Question 1:

Find the Fourier series of periodic square wave given by

$$f(x) = \begin{cases} -k & \text{if } -\pi < x < 0 \\ k & \text{if } 0 < x < \pi \end{cases}$$

Question 2:

Find the Fourier series of periodic square wave given by

$$f(x) = \begin{cases} 0 & \text{if } -2 < x < -1 \\ k & \text{if } -1 < x < 1 \\ 0 & \text{if } 1 < x < 2 \end{cases}$$