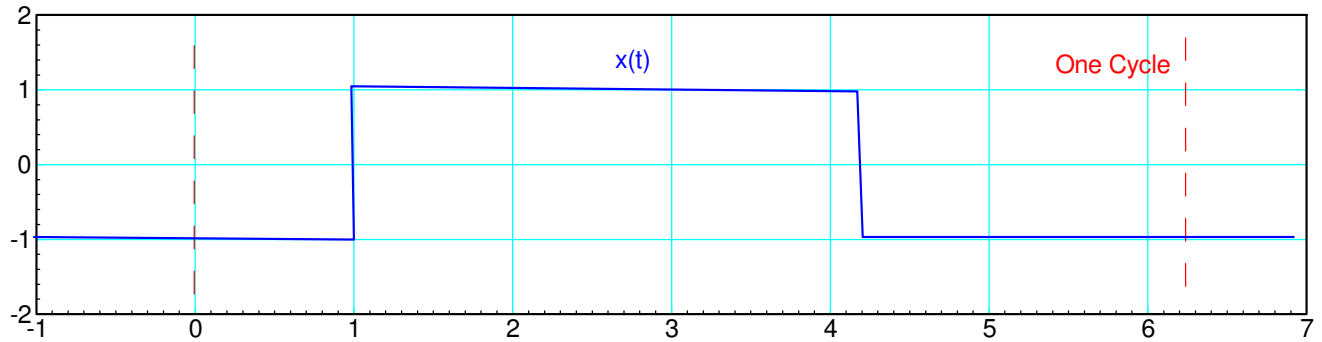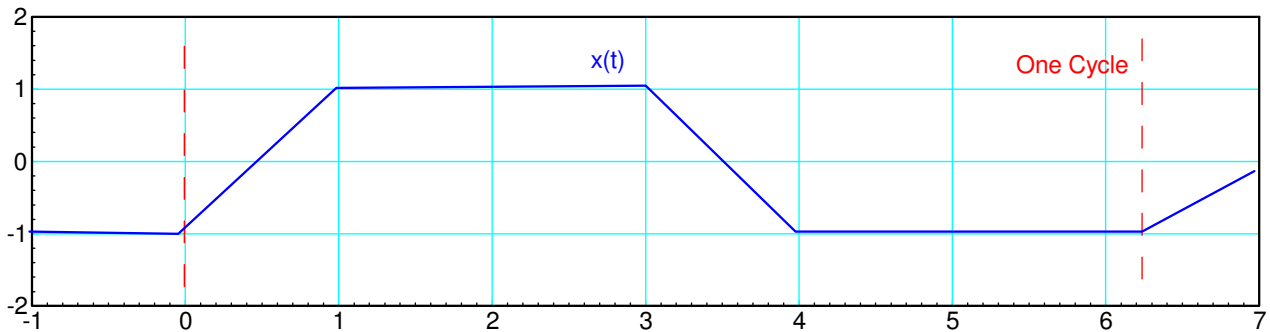# ECE 343 - Homework #6

Properties of Fourier Transforms - Summer 2018

1) Find the Fourier Transform for a 50% duty cycle 1 rad/sec square wave which is delayed by 1 second

Plot x(t) using it's Fourier series approximation taken out to 20 harmonics (n = 1..20)

2) Find the Fourier Transform for a 1 rad/sec trapezoid function

Plot x(t) along with its Fourier approximation taken out to the 20th harmonics