

# EE 311 Signals and Systems Hwk7

## Problems from Textbook

For each of the waveforms in Problems 5.40 and 5.43, determine the Fourier Transform.

Problem 5.40  $A = 10, T = 6$  s

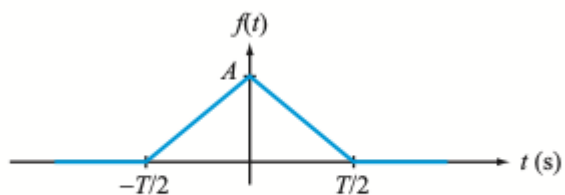


Figure P5.40: Waveform for Problem 5.40.

Problem 5.43  $A = 1$  and  $T = 3$  s.

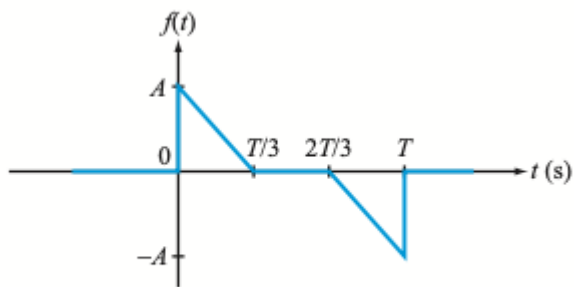


Figure P5.43: Waveform for Problem 5.43.

Problem 5.65 Compute the energy of:  $e^{-t}u(t) * \sin(t)/\pi t$