

# Homework 5

## Fourier Series

1. Compute the exponential Fourier series for the wave forms shown in [Worksheet 9](#) ([../fourier\\_series/1/worksheet9](#)).
2. Compute the exponential Fourier series of a full-wave rectified sinusoid. a. Give the power spectrum for this signal b. estimate the total harmonic distortion for the first 7 harmonics.