

List of things to know
Week4 (2/4/04)

- Know how to use the linearity, time-shift, time reversal, and conjugation properties when computing Fourier series coefficients.
- Be able to use properties of Table 3.1 & Table 3.2 on specific signals
- Be able to compute the Fourier series expansion of continuous and discrete periodic pulses.
- Be able to reconstruct a signal time-domain expression given the expression for the a_k 's
- Be able to specify whether some specific properties of a signal are true, given the expression for the a_k 's of the signal
- Be able to compute the frequency response of a LTI system
- Be able to compute the output of a periodic signal through a LTI system in terms of the Fourier series decomposition
- Be able to expand a real periodic signal in terms of a set of cosine functions, and be able to compute the output of that signal through a LTI real system in terms of cosine functions too.