EECS 206 Homework Set 1 Due on May 17, 2002, Friday

Do the following problems in Problem Set of the clasnote, dated May 2, 2002.

1. Problem 4 on pages 45-6.
2. Problem 6 on page 46.
3. Problem 10 on page 47.
4. Problem 11 on page 47.
5. Problem 21 on page 48.
6. Problem 26 on page 50.
7. A first exercise with Matlab. Download the file "periodic.mat", which is listed on the class website as a link just below the link to this homework set. This file is a Matlab workspace file that contains a vector called signal1, which is a segment of a nearly periodic discrete-time sequence. You will need to do the following:

   (i) Start Matlab

   (ii) Load periodic.mat. To do this type in `load periodic` at the Matlab prompt and then press the "Enter" key.

   (a) Find the length of the vector signal1.

   (b) Find its maximum and minimum values.

   (c) Find, approximately, the period of this approximately periodic discrete-time signal.