EECS 206 – Winter 2002

Homework #11 – Assigned Mar. 29 – Due Friday Apr. 5

Relevant Lectures: 3/25, 3/27, 3/29
Relevant Reading: Chapter 7 (all of it)
Relevant Items in the DSP First CD: Homework problems 7.1 to 7.47.
Homework Submission Policies: Same as before (see course Web page).

2. Textbook, Problem 7.7, p. 244.
3. Textbook, Problem 7.10 (b), p. 245.
7. Calculate the overall system function from $x$ to $y$ in the block diagram below:

8. Consider the filter

$$y[n] = y[n-1] + y[n-2] + x[n]$$

(a) Tabulate the values of $h[n]$, $n = 0, \ldots, 10$. Assume that $y[n] = 0$ for $n < 0$.
(b) Calculate $H(z)$.
(c) What are the poles and zeros of $H(z)$?