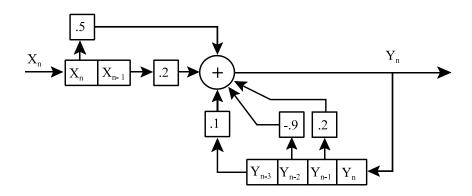
EE 432-1, Digital Control Systems, Quiz-2

Dr. Ahmad A. Masoud, Monday Oct. 22 2007.



For the system with the above simulation diagram:

Assume that initially the output register is storing $[y_{-3} \ y_{-2} \ y_{-1} \ y_0] = [1\ 01\ 1]$ and there is no input signal. Derive a formula which you may use to compute the output Yn for any n > 0. Numerically compute the content of the registers of the system at n=2.