-0.2y19

BSP Homework 5

y(n) = 400(.2) ~ u(n)

$$y(n) - 1.1y(n-1) = x(n) + x(n-1)$$

$$y(n) = 8(n) + 8(n-1) + 1.1y(n-1)$$

$$y(0) = 1 + 0 + 1.1(0) y(1) = 0 + 1 + 1.1(1)$$

$$y(0) = 1.1(2.1)$$

$$y(0) = 2.31$$

yen = 5(n) + 2,18(n.1)+ n/1/8(n-2)

$$y_{1}(n) = x(n) + h(n)$$

$$x(n) = \delta(n) + 2\delta(n-1) - \delta(n-3)$$

$$h(n) = 2\delta(n+1) + 2\delta(n-1)$$

$$[\delta(n) - 2\delta(n-1) - \delta(n-3)][2\delta(n+1) + 2\delta(n-1)]$$

$$[\frac{\delta(n)}{2}, \frac{2}{2}, \frac{2}{2}, \frac{2}{2}, \frac{2}{3}]$$

Matlab plot in downer's y(n) = 28(n) + 48(n-1) + 28(n-2) + 28(n-3)-28(n-5)

35) Y2(M= X (n+Z) * h(n) x(n+2) {1, 2, 8, -1} h(n) = {2, 9, 2} y(n) = {1,0,0,0}

