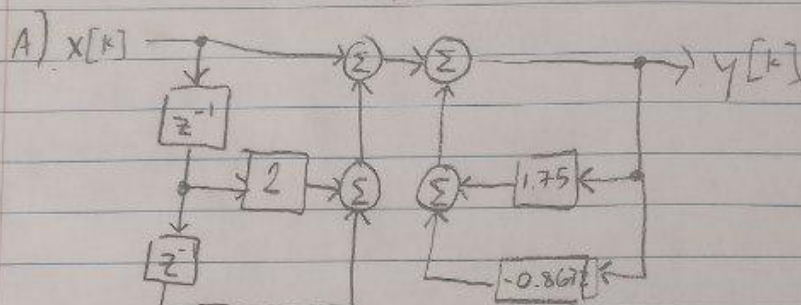
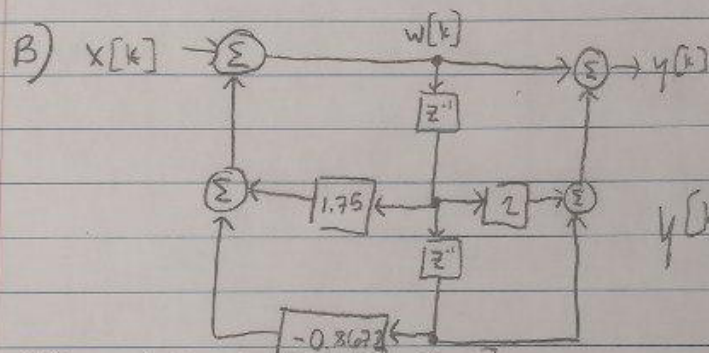


(12) $H(z) = \frac{z^2 + 2z + 1}{z^2 - 1.75z + 0.8672}$



$$y[k] = x[k] + 2x[k-1] + x[k-2] + 1.75y[k-1] - 0.8672y[k-2]$$

see attachment for code



$$w[k] = x[k] + 1.75w[k-1] - 0.8672w[k-2]$$

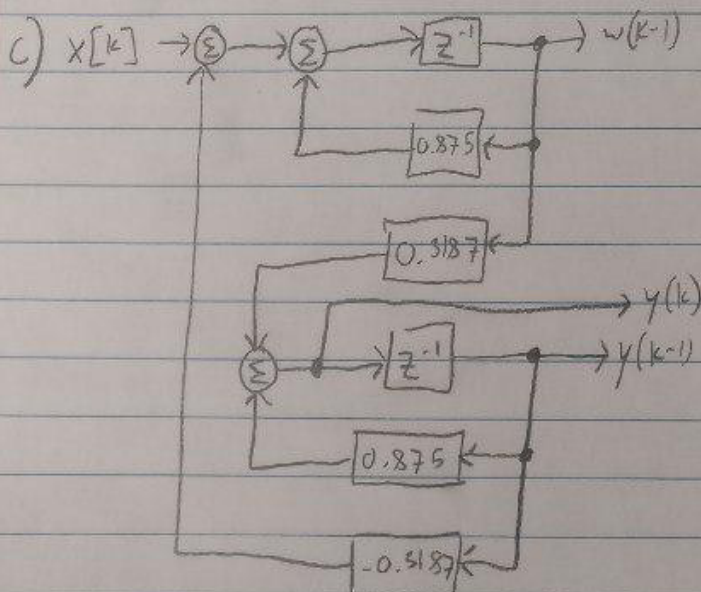
$$y[k] = w[k] + 2w[k-1] + w[k-2]$$

$$y[k] = w[k] + 2w[k-1] + w[k-2]$$

see attachment for code

$$\alpha = 0.875$$

$$\beta = 0.3187$$



$$w[k-1] = w[k] + 0.875w[k-1] + x[k] - 0.3187y[k-1]$$

see attachment for code

$$y[k] = 0.3187w[k-1] + 0.875y[k-1]$$