Lect 2 Example D.4

6.
$$\frac{Y(z)}{U(z)} = \frac{1}{z^2 - 1.7z + 0.7z} = \frac{10}{z - 0.9} + \frac{-10}{z - 0.9}$$

Entire $\frac{z^2}{U(z)} = \frac{10z^2}{1 - 0.9z^2} + \frac{-10}{1 - 0.8z^2} = \frac{z^{-1}}{1 - 0.9z^2} = \frac{10z^2}{1 - 0.9z^2} = \frac{10z^2}{1 - 0.9z^2} = \frac{10z^2}{1 - 0.8z^2} = \frac{10z^2}{1 - 0.9z^2} = \frac{10z^2}{1 -$

$$\chi(lk+1) = 0.9 \times (lk) + u(k)$$

$$\alpha(k+1) = \begin{bmatrix} 0.9 & 0.9 & 0.4 \\ 0 & 0.4 \end{bmatrix} \alpha(k) + \begin{bmatrix} 1 \\ 1 \end{bmatrix} \alpha(k)$$

$$\gamma(k) = \begin{bmatrix} 10 & -10 \end{bmatrix} \alpha(k)$$