$$\mathcal{J}[m] = 0.8 \, \mathcal{J}[m-1] + \mathcal{X}[m] + \mathcal{X}[m-1]$$

$$\mathcal{X}[n] = \text{Random process with } \mathcal{X}_{xx}[m] = \left(\frac{1}{z}\right)^{|m|}$$

$$\mathcal{X}[n] = \mathcal{X}_{yy}[m] = \mathcal{X}_{xx}[m]$$

$$\mathcal{X}[n] = \mathcal{X}_{xx}[m]$$

$$\begin{array}{c} (z) = 2 \\ (z) = 7 \\ \vdots \\ z = 7 \end{array}$$

$$\begin{array}{c} \times \{m\} \\ \times \{\pi\} \\ \end{array}$$

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$$\begin{array}{c} \times \{\pi\} \\ \times \{\pi\} \\ \times \{\pi\} \\ \end{array}$$

$$\begin{array}{c} \times \{\pi\} \\ \times \{\pi\}$$

$$H(z) = \frac{1+z^{-1}}{1-0.8z^{-1}}$$

$$T_{xx}(z) = \frac{1+z^{-1}}{1+z^{-1}}$$

Same ous in L11 
$$\left(\frac{1}{4}\right)^{-1} = \frac{-1}{1-\frac{1}{2}z^{-1}} + \frac{1}{1-\frac{1}{2}z^{-1}} - \frac{1}{1-\frac{1}{2}z^{-1}}$$

$$=\frac{\left(1-\frac{1}{2}2\right)+\left(1-\frac{1}{2}\frac{7}{2}\right)-\left(1-\frac{1}{2}\frac{7}{2}\right)\left(1-\frac{1}{2}\frac{7}{2}\right)}{\left(1-\frac{1}{2}\frac{7}{2}\right)\left(1-\frac{1}{2}\frac{7}{2}\right)}=\frac{2-\frac{1}{2}2-\frac{1}{2}2-\frac{1}{2}2-\frac{1}{2}2-\frac{1}{2}2-\frac{1}{2}2-\frac{1}{2}2}{\left(1-\frac{1}{2}\frac{7}{2}\right)}$$

$$= \frac{3/4}{\left(1 - \frac{1}{2}\frac{7}{2}\right)\left(1 - \frac{1}{2}\frac{7}{2}\right)} = \frac{\frac{3}{4}}{\left(1 - \frac{1}{2}\frac{7}{2}\right) \cdot \frac{1}{2}\left(2 - 2\right)} = \frac{-\frac{3}{2} \cdot 7}{\left(1 - \frac{1}{2}\frac{7}{2}\right)\left(2 - 2\right)} = \frac{-\frac{3}{2} \cdot 7}{\left(1 - \frac{1}{2}\frac{7}{2}\right)\left(2 - 2\right)} = \frac{-\frac{3}{2} \cdot 7}{\left(1 - \frac{1}{2}\frac{7}{2}\right)\left(2 - 2\right)}$$

$$| y |_{2} = | \frac{1}{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2} |_{2}$$

$$\frac{7}{7} \frac{1}{7} \frac{1}{7} = \frac{2^{-1}}{7} \frac{7}{7} \frac{1}{7} \frac{1}$$

$$A = \left(2 - \frac{1}{2}\right) = \frac{\left(\frac{1}{2} + 1\right)^2}{\left(\frac{1}{2} - 2\right)\left(\frac{1}{2} - 0.8\right)\left(\frac{1}{2} - \frac{1}{0.8}\right)} = -M \left(1 - \frac{1}{2}\right) = -M \left(1 - \frac{1}{2}\right) = -M \left(1 - \frac{1}{2}\right)$$

$$\begin{cases}
\frac{1}{2} - 2 \cdot \left(\frac{1}{2} - 0.8\right) \cdot \left(\frac{1}{2} - \frac{1}{0.8}\right) \\
\frac{1}{2} \cdot \left(\frac{1}{2} - 0.8\right) \cdot \left(\frac{1}{2} - \frac{1}{0.8}\right)
\end{cases} = \frac{1.5}{0.8} \left(A \cdot \left(\frac{1}{2}\right) \cdot \left(\frac{1}{0.8}\right) \cdot \left(\frac$$

c). 
$$\forall yy [0] = \overline{(y[m])^2} = \nabla y^2 + \mu^2$$
  
=>  $\nabla y^2 = \forall yy [0] - \mu^2 = \forall yy [0] - 0^2 = \forall yy [0] = ----$