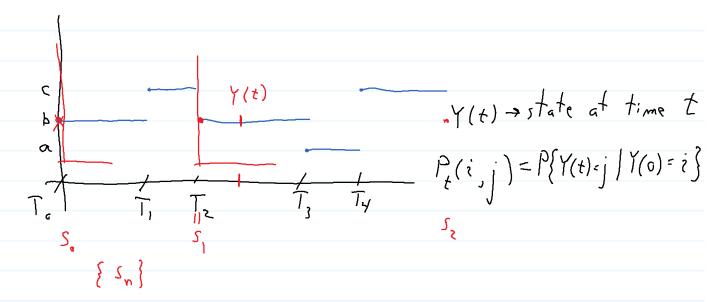
Markov Processes

Context: {Y(t)} is a Markov process with finite state space and no instantaneous states



$$P = \begin{bmatrix} 0.6 & 0.4 \\ 0.2 & 0.8 \end{bmatrix}$$

$$+r(P) = 0.6 + 0.8 = 1.4$$

$$+r(P) = 0.7$$

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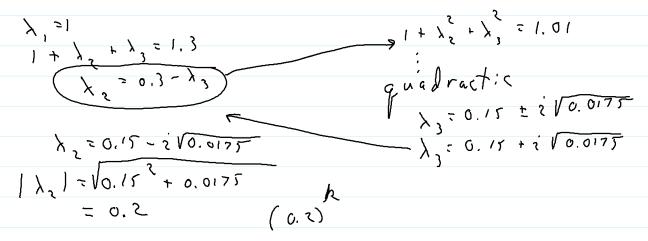
Saturday, March 21, 2020 11:14 AM

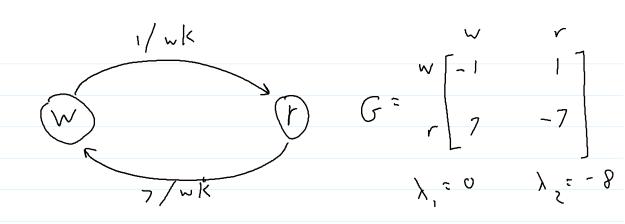
$$P = \begin{cases} 0.2 & 0.3 & 0.5 \\ 0.2 & 0.5 & 0.3 \\ 0 & 0.4 & 0.6 \end{cases}$$

$$\begin{cases} 0.64+6.06 & 8 \\ 2 & 2 & 0.64+0.36 \end{cases}$$

$$\begin{cases} 0.64+6.06 & 8 \\ 2 & 2 & 0.12+0.36 \end{cases}$$

$$\begin{cases} tr(P^2) = 1.01 \end{cases}$$





$$P\left\{Y\left(\frac{1}{7}\right)=w\mid Y(0)=w\right\}=e^{G\times\frac{1}{7}}(w,w)$$

$$V_{\xi}=\begin{pmatrix}1\\1\end{pmatrix}$$

$$V_{\xi}=\begin{pmatrix}1\\-7\end{pmatrix}$$