

$x_{n+k} =$

$$X(n+1) = f(X(n))$$

$$\underline{|A - \lambda E| = 0}$$

$$\underline{A \cdot u = \lambda u}$$

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$$\begin{vmatrix} f_1 - \lambda & f_2 & f_3 \\ T_1 & -\lambda & 0 \\ 0 & z_2 & -\lambda \end{vmatrix} = f_3 \cdot (-1)^4 \cdot \begin{vmatrix} T_1 & -\lambda \\ 0 & z_2 \end{vmatrix} + (-\lambda) \cdot (-1)^3 \cdot \begin{vmatrix} f_1 - \lambda & f_2 \\ 0 & T_1 \end{vmatrix}$$

$$= f_3 T_1 z_2 - \lambda \cdot [(-\lambda)(f_1 - \lambda) - f_2 T_1]$$

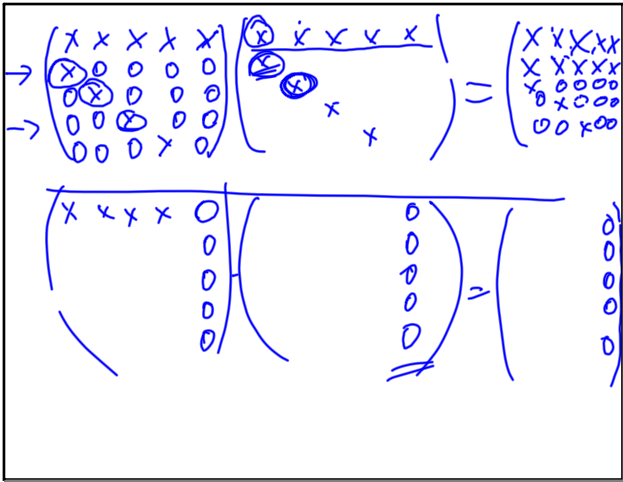
$$= (-1)^3 \cdot [\lambda^3 - f_1 \lambda^2 - f_2 T_1 \lambda - f_3 T_1 z_2]$$

$$= \lambda^3 - f_1 \lambda^2 - f_2 T_1 \lambda - f_3 T_1 z_2$$

$$f = \lambda^m - a_1 \lambda^{m-1} - a_2 \lambda^{m-2} - \dots - a_m$$

$$\frac{f}{\lambda^m} = 1 - \frac{a_1}{\lambda} + \frac{a_2}{\lambda^2} - \dots + \frac{a_m}{\lambda^m}$$

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5 9-10:50

$$P(S_1^{(t+1)})$$

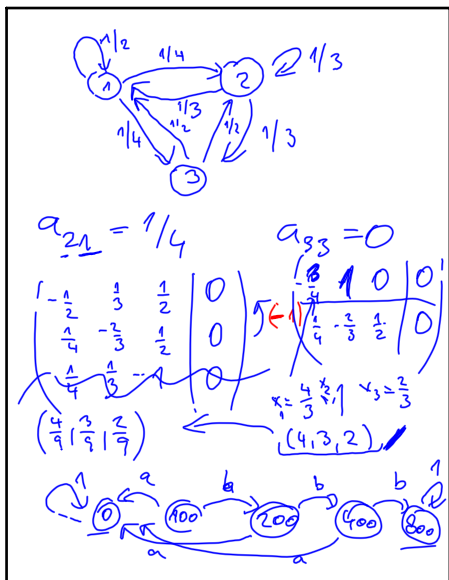
$$S_1^{(t+1)} = (S_1^{(t+1)} \cap S_1^{(t)}) \cup (S_1^{(t+1)} \cap S_2^{(t)}) \cup (S_1^{(t+1)} \cap S_3^{(t)}) \cup \dots \cup (S_1^{(t+1)} \cap S_m^{(t)})$$

$$P\left(\frac{S_1^{(t+1)} \cap S_m^{(t)}}{A} \cap \frac{S_m^{(t)}}{B}\right) = \frac{a_{1m} \cdot P_m(t)}{P(A) \cdot P(B)}$$

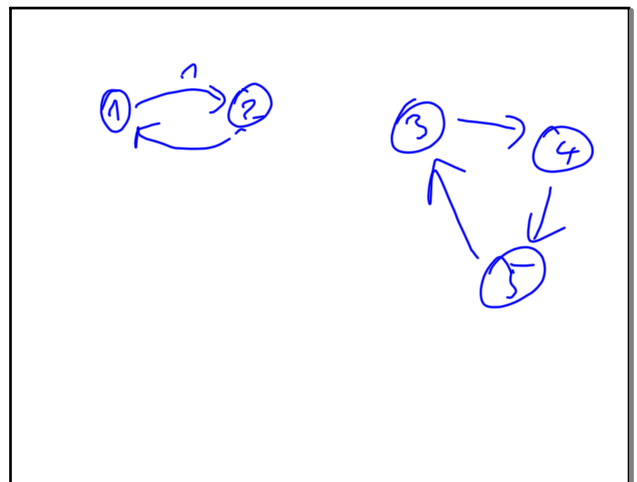
$$P(A|B) = \frac{P(A \cap B)}{P(B)} \quad P(A \cap B) = P(A|B) \cdot P(B)$$

$$\begin{pmatrix} a_{11} & a_{12} & a_{13} & a_{14} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ \vdots & \vdots & \vdots & \vdots \\ a_{m1} & & & \end{pmatrix} \begin{pmatrix} P_1(t) \\ P_2(t) \\ P_3(t) \\ P_4(t) \end{pmatrix} = \begin{pmatrix} P_1(t+1) \\ P_2(t+1) \\ \vdots \\ P_m(t+1) \end{pmatrix}$$

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5 9-11:48