$$\sum_{k=2}^{N} \frac{1}{2} \sum_{i=1}^{N} \frac{1}{2} \sum_{$$

For
$$A_3 = 1$$
 $Cres = 1$
 C

G.
$$A = PDP^{-1}$$

$$A^{2} = A \cdot A = (PDP^{-1})(PDP^{-1}) = PDI_{1}DP^{-1} = PD^{2}P^{-1}$$

$$A^{3} = A^{3} \cdot A = = (PD^{2}P^{-1})(PDP^{-1}) = PD^{3}P^{-1} = PD^{3}P^{-1}$$

$$This pattern will continue$$

$$A^{k} = PD^{k}P^{-1}$$

$$A^{13} = PD^{13}P^{-1} = \begin{pmatrix} 0 & -1 & a \\ 0 & 1 & 1 \end{pmatrix} \begin{pmatrix} 2 & 0 & 0 \\ 0 & a & 0 \\ 0 & 1 & 1 \end{pmatrix} \begin{pmatrix} 1 & 1 & 1 \\ 0 & a & 1 \end{pmatrix}$$

$$= \begin{pmatrix} 0 & -1 & a \\ 0 & 1 & 1 \end{pmatrix} \begin{pmatrix} 8192 & 0 & 0 \\ 0 & 8192 & 0 \\ 0 & 1 & 0 & -1 \end{pmatrix}$$

$$= \begin{pmatrix} -8194 & 0 & -16286 \\ 8192 & 8192 & 8192 \\ 8192 & 8192 & 8192 \end{pmatrix}$$

3.
$$X_{K+1} = \frac{1}{2} X_K + \frac{3}{4} Y_K$$
 $Y_{K+1} = \frac{1}{2} X_K + \frac{1}{4} Y_K$
 $Y_{K+1} = \frac{1}{2} X_K + \frac{1}{4} Y_K$
 $Y_{K+1} = \frac{1}{2} X_K + \frac{3}{4} Y_K$
 $Y_{K+1} = \frac{1}{2} X_K + \frac{1}{4} Y_K$
 $\hat{Y}_{L} = 0, 1, 3, 3, 4, 5$
 $\hat{X} (K+1) = A \cdot \hat{X}(L) \rightarrow \hat{X}(L) = \begin{pmatrix} X_K \\ Y_K \end{pmatrix} & G \rightarrow A = \begin{pmatrix} \frac{1}{2} & \frac{7}{4} \\ \frac{1}{2} & \frac{1}{4} \end{pmatrix}$
 $A \cdot \begin{pmatrix} Y_2 & Y_4 \\ Y_2 & Y_4 \end{pmatrix} & G \rightarrow \begin{pmatrix} Y_3 - \lambda & Y_4 \\ Y_2 & Y_4 - \lambda \end{pmatrix}$
 $= \begin{pmatrix} \frac{1}{2} - \lambda & \frac{1}{2} \end{pmatrix} & G \rightarrow \begin{pmatrix} \frac{1}{2} - \lambda & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{4} \end{pmatrix}$
 $= \begin{pmatrix} \frac{1}{2} - \lambda & \frac{1}{2} \end{pmatrix} & (\frac{1}{2} - \frac{1}{2}) & (\frac{1}$

Basis of A = \(\frac{1}{2} \), \(\frac{3}{2} \) \(\frac{1}{2} \)

b. There are 2 (i) e vectors for
$$A$$
 50 A is diagonalizable (. $p = \begin{pmatrix} -\frac{1}{3} & \frac{3}{3} \\ 1 & 0 \end{pmatrix}$ $p = \begin{pmatrix} -\frac{1}{4} & 0 \\ 0 & 1 \end{pmatrix}$ $A = \begin{pmatrix} \frac{1}{4} & \frac{3}{44} \\ \frac{1}{40} & \frac{11}{44} \end{pmatrix}$

$$C. p = \begin{pmatrix} -\frac{1}{3} \\ 1 \\ 2 \end{pmatrix} \qquad D = \begin{pmatrix} -\frac{1}{4} \\ 0 \\ 1 \end{pmatrix} \qquad A = \begin{pmatrix} \frac{1}{4} \\ \frac{3}{4} \\ \frac{11}{4} \end{pmatrix}$$

$$AP = \begin{pmatrix} 1/2 & 3/4 \\ 1/2 & 1/4 \end{pmatrix} \begin{pmatrix} -1 & 3 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 1/2 & 3 \\ -1/2 & 2 \end{pmatrix}$$

$$AP = \binom{1/3}{2} \frac{3/4}{12} \binom{-1}{3} = \binom{1/2}{-1/3} \frac{3}{2}$$

$$PD = \binom{-1}{3} \binom{-1/4}{0} \binom{0}{0} = \binom{1/2}{2} \frac{3}{2}$$

$$AP = PD$$

$$\binom{1}{2}\binom{3}{0}\binom{-1/4}{0}\binom{-2/5}{15}\binom{3/5}{15}=\binom{1}{2}\binom{3/4}{1/2}\binom{1}{1/2}\binom{1/4}{1/4}$$

Pittern

[Ah = PDhp-1]

J.
$$\vec{x}(i) = A \cdot \vec{x}(0)$$
 Do trus.

$$\vec{x}(z) = A \vec{x}(i) = A(A \vec{x}(0)) = A^2 \vec{x}(0)$$

$$\vec{x}(3) = A\vec{x}(a) = A(4^2\vec{x}(0)) = A^7\vec{x}(0)$$

$$\bar{x}(4) = A\bar{x}(3) = A(A^{5}x(0)) = A^{4}\bar{x}(0)$$

$$\begin{array}{lll}
h: & \overline{X}(0) = \begin{pmatrix} x_{-1} \\ y_{0} \end{pmatrix} = \begin{pmatrix} 1/2 & 3/4 \\ y_{1} & 1/4 \end{pmatrix} \begin{pmatrix} 100 \\ 0 \end{pmatrix} = \begin{pmatrix} 50 \\ 50 \end{pmatrix} \\
& \overline{X}(1) = A \cdot \overline{X}(0) = \begin{pmatrix} 1/2 & 3/4 \\ y_{1} & 1/4 \end{pmatrix} \begin{pmatrix} 100 \\ 0 \end{pmatrix} = \begin{pmatrix} 50 \\ 37.5 \end{pmatrix} \\
& \overline{X}(3) = A^{3} \overline{X}(0) = \begin{pmatrix} 1/2 & 3/4 \\ 1/2 & 1/4 \end{pmatrix}^{3} \begin{pmatrix} 100 \\ 0 \end{pmatrix} = \begin{pmatrix} 59.375 \\ 140.695 \end{pmatrix} \\
& \overline{X}(4) = A^{4} \overline{X}(0) = \begin{pmatrix} 1/2 & 1/4 \\ 1/2 & 1/4 \end{pmatrix}^{4} \begin{pmatrix} 100 \\ 0 \end{pmatrix} = \begin{pmatrix} 59.375 \\ 140.695 \end{pmatrix} \\
& \overline{X}(4) = A^{4} \overline{X}(0) = \begin{pmatrix} 1/2 & 1/4 \\ 1/2 & 1/4 \end{pmatrix}^{4} \begin{pmatrix} 100 \\ 0 \end{pmatrix} = \begin{pmatrix} 60.15625 \\ 39.84375 \end{pmatrix} \\
& \overline{X}(1) = A^{4} \overline{X}(1) = \begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 1/2 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/2 \\ 0 & 1/2 \end{pmatrix} \begin{pmatrix} 1/2 & 1/$$

 $\frac{1}{5} \left(\frac{200(-1/4)^{1/4}}{200} + \frac{300}{200} \right) = \frac{3}{2} (h)$

J.
$$A^{L} = PDP^{1} = \begin{pmatrix} 1 & 3 \\ 1 & 2 \end{pmatrix}\begin{pmatrix} -1/4 & 0 \\ 0 & 1 \end{pmatrix}^{L} \begin{pmatrix} -2/5 & 3/5 \\ 1/5 & 1/5 \end{pmatrix}$$

Lim $\begin{pmatrix} -1 & 3 \\ 1 & 2 \end{pmatrix}\begin{pmatrix} -1/4 & 0 \\ 0 & 1/5 & 3/5 \end{pmatrix}$
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 $\begin{pmatrix} -1/4 & 0 \\$

M. after a long the his passed "0" 60% of the drug will be in the Blood stream ead 40% will stay in the liver. 0. (6-1/6) - (2/1/4-6) (a-1)(-1)-(6:3)-(6:3)-(6:3)-(6:3)-(6:3)-(6:3) = 31+ 1 66 - 7 61 5 15 5 19 + 1 - 2 - 12 + 1 - 2 - 32 + 165 7 19 - 34

3.
$$A = \begin{pmatrix} 0 & -2 \\ -2 & 1 \end{pmatrix}$$
 $P(A) = \det \begin{pmatrix} 2-\lambda & -2 \\ -2 & 1-\lambda \end{pmatrix} = 0$

$$\begin{pmatrix} 2-\lambda(\lambda-1-\lambda) & -(-2)(-2) = 0 \\ \lambda^2 - \lambda - 6 I = 0 \end{pmatrix}$$
 $P(A) = \begin{pmatrix} 0 - 2 \\ -2 & 1 \end{pmatrix} - \begin{pmatrix} 0 & 0 \\ -2 & 1 \end{pmatrix} - \begin{pmatrix} 0 & 0 \\ 0 & 6 \end{pmatrix}$

$$\begin{pmatrix} 8 & -2 \\ -2 & 5 \end{pmatrix} + \begin{pmatrix} -2 & 2 \\ 2 & 1 \end{pmatrix} + \begin{pmatrix} -1 & 0 \\ 0 & 6 \end{pmatrix}$$

$$\begin{pmatrix} 8 & -2 \\ -2 & 5 \end{pmatrix} + \begin{pmatrix} -8 & 2 \\ 2 & -5 \end{pmatrix} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 0 & 4 \\ -2 & 1 & 3 \\ 2 & 0 & 4-\lambda \end{pmatrix} \Rightarrow \det \begin{pmatrix} 6-\lambda & 6 & 4 \\ -2 & 1-\lambda & 3 \\ 2 & 0 & 4-\lambda \end{pmatrix}$$

$$\begin{pmatrix} 6-\lambda(1-\lambda)(4-\lambda) - 0 + 4(6-2(1-\lambda)) \\ (6-\lambda(4-\lambda-4\lambda+\lambda^2)-8+8\lambda \end{pmatrix}$$

24-301+612-41+512-13-8+81-7-13+1112-261+16=0

$$P(A) = \begin{pmatrix} 6 & 0 & 4 \\ 3 & 1 & 3 \\ 2 & 6 & 4 \end{pmatrix}^{3} - 11 \begin{pmatrix} 6 & 0 & 4 \\ -2 & 1 & 3 \\ 2 & 0 & 4 \end{pmatrix}^{2} + 26 \begin{pmatrix} 6 & 0 & 4 \\ -2 & 1 & 3 \\ 2 & 0 & 4 \end{pmatrix} - 16 \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

$$(9) \ r(A) = A^n + C_{n-1} A^{n-1} \qquad C_1 A + C_0 I = 0$$

$$A = \begin{pmatrix} 1 & 2 \\ 3 & 5 \end{pmatrix}$$
 $det \begin{pmatrix} 1-\lambda & 2 \\ 3 & 5-\lambda \end{pmatrix} = 0$

$$A^{-1} = \begin{pmatrix} 1 & 2 \\ 3 & 5 \end{pmatrix} - 6 \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \rightarrow \begin{pmatrix} 1 & 2 \\ 3 & 5 \end{pmatrix} - \begin{pmatrix} 6 & 6 \\ 0 & 6 \end{pmatrix}$$

$$A^{-1} = \begin{pmatrix} -5 & 2 \\ 3 & -1 \end{pmatrix}$$

$$S_{A} A^{2} = \partial A + I \longrightarrow (A)A^{2} = A(\partial A + I) \Rightarrow A^{3} = \partial A^{2} + A$$

$$A^{3} = \partial A + A = 2(\partial A - I) + A = 4A - 2I + A = 5A + 2I$$

$$S \begin{pmatrix} 3 & -1 \\ 2 & -1 \end{pmatrix} + \begin{pmatrix} 2 & 6 \\ 6 & 0 \end{pmatrix} = \begin{pmatrix} 15 & -5 \\ 10 & -5 \end{pmatrix} + \begin{pmatrix} 2 & 0 \\ 6 & 2 \end{pmatrix} = \begin{pmatrix} 17 & -5 \\ 10 & -3 \end{pmatrix}$$

$$A^{3} = SA + \partial I$$

$$A \cdot A^{3} = A4 = A(SB + \partial I) = SA^{2} + \partial A$$

$$S \begin{pmatrix} 3A + I \end{pmatrix} + \partial A = IOA + 5I + 2A = I\partial A + SI$$

$$I\partial \begin{pmatrix} 3 & -1 \\ 2 & -1 \end{pmatrix} + \begin{pmatrix} 5 & 6 \\ 6 & 5 \end{pmatrix} = \begin{pmatrix} 41 & -12 \\ 24 & -10 \end{pmatrix} + \begin{pmatrix} 5 & 6 \\ 6 & 5 \end{pmatrix} = \begin{pmatrix} 41 & -12 \\ 24 & -7 \end{pmatrix}$$

$$I\partial \begin{pmatrix} 3 & -1 \\ 2 & -1 \end{pmatrix} + \begin{pmatrix} 6 & -A & 6 \\ 2 & 2-A & -1 \\ 3 & 2-A & -1 \end{pmatrix} = 0$$

$$-A \begin{pmatrix} 6 - A \end{pmatrix} (2 - A) - 0 \end{pmatrix} + I(0 - (2 - A))$$

$$-A \begin{pmatrix} 4 - 4A + A^{2} \end{pmatrix} - 2A + A = A + 2I$$

$$A^{3} - 4A^{2} + 3A + 2I \longrightarrow A^{3} = 4A^{3} - 3A - 2I$$

$$A^{4} = 4A^{3} - 3A^{2} - SA$$

$$16A^{2} - 10A - 8T - 3A^{2} - 2A = 13A^{2} - (4A - 8T)$$

$$15 = 13A^{3} - 14A^{2} - 8A \Rightarrow 13(4A^{0} - 3A - 2F) - 14A^{2} - 8A$$

$$52A^{0} - 39A - 26T - 14A^{2} - 8A$$

$$A5 = 38A^{2} - 47A - 2CT$$

$$38 \begin{pmatrix} 0 & 0 & 1 \\ 2 & 2 & -1 \end{pmatrix} - 47 \begin{pmatrix} 0 & 0 & 1 \\ 2 & 2 & -1 \end{pmatrix} - 2C \begin{pmatrix} 1 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix} = \begin{pmatrix} 12 & 0 & 24 \\ 26 & 32 & -24 \\ 24 & 0 & 70 \end{pmatrix}$$

begin will examine here a discrete dynamical operant for a system that excluse in time) that else happens to be a Markey chain bees existed 4.5 in 1995 (cash-look).

A dring is used to regulate liver function. Apparient takenen injection containing 100 indiated the drug. Every 10 minutes. Some of the stug in the binaristrates days in the process reason while 50% stays in the liver; during the same time period, 16 % of the rang in the liver goes to the best distributive while 25% stays in the liver. Wild an artisip injection that gots the process started, 1600 units of the drug go directly into the binaristrator (and Garrier into the liver). This process on the period in the liver in the process of the process of the process of the liver in the liver in the binarion with a liver in the liver in the

The amount of drag in the liver after k 10-usin finns improve have passed

$$x_{k+1} = \frac{1}{2}x_k + \frac{3}{4}x_k^2$$
 where $k = 0, 1, 2, 3, 4, 5, \dots$ $k = 0, 1, 2, 3, 4, 5, \dots$