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$$- \frac{1}{4} \alpha_{Y} = V_{1} + V_{2} = 0 \quad \text{and} \quad = -\frac{1}{4} \left( \begin{bmatrix} 1 \\ 2 \end{bmatrix} + \begin{bmatrix} 1 \\ 4 \end{bmatrix} \right) = \begin{bmatrix} -1 \\ -4 \end{bmatrix}$$

$$\alpha_{r} = \frac{1}{r} \left( V_{r} - \alpha_{r} \right) = \frac{1}{r} \left( \begin{bmatrix} 1 \\ 0 \end{bmatrix} - \begin{bmatrix} -1 \\ -r \end{bmatrix} \right) = \begin{bmatrix} 1 \\ r \end{bmatrix}$$

$$\begin{array}{ll}
P_{B\leftarrow A} = \left[ \begin{bmatrix} \alpha_1 \\ B \end{bmatrix} \begin{bmatrix} \alpha_2 \\ B \end{bmatrix} = \begin{bmatrix} 4 & -\alpha \\ V & -4 \end{bmatrix} & \text{pulses Cabil} \\
\end{array}$$

$$\begin{bmatrix} \alpha_{1} \\ \beta_{2} \end{bmatrix} = \begin{cases} 4b_{1} + 4b_{1} = \alpha_{1} \\ b_{1} - 4a_{1} = \begin{bmatrix} 1 \\ -1 \end{bmatrix} \\ \begin{bmatrix} \alpha_{1} \\ \beta_{2} \end{bmatrix} = \begin{cases} -2b_{1} - 4b_{2} - \alpha_{1} \\ b_{2} \end{bmatrix} = \begin{cases} -1b_{1} - 4b_{2} - \alpha_{2} \\ b_{3} \end{bmatrix}$$

$$\begin{bmatrix} \alpha_{1} \\ \beta_{2} \end{bmatrix} = \begin{bmatrix} -2b_{1} - 4b_{2} - \alpha_{2} \\ b_{3} \end{bmatrix} = \begin{bmatrix} -1b_{2} \\ b_{4} \end{bmatrix}$$

$$= > A = \left\{ \alpha_{1} = \begin{bmatrix} -1 \\ -\nu \end{bmatrix}, \alpha_{2} = \begin{bmatrix} 1 \\ \nu \end{bmatrix} \right\}, \beta = \left\{ b_{1} = \begin{bmatrix} -1 \\ \nu \end{bmatrix}, b_{2} = \begin{bmatrix} 1 \\ \nu \end{bmatrix} \right\}$$

$$= \left[ \begin{array}{c} V + I \\ P + O \end{array} \right] \sim \left[ \begin{array}{c} I + V \\ V - V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V - V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V \\ V \\ V \end{array} \right] \sim \left[ \begin{array}{c} I - V$$

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$$\alpha = \begin{cases} 21' + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19 + 11 + 19$$

$$\begin{bmatrix} Y & Y & -1 & 1 & 1 & 0 \\ P & Y & 0 & 1 & 0 & 1 \\ 1 & 1 & -Y & 1 & 1 & -1 \end{bmatrix} \begin{bmatrix} 1 & 1 & -Y & 1 & 1 & -1 \\ 0 & -1 & 7 & -Y & -Y & Y \\ 0 & 0 & P & -1 & -1 & Y \end{bmatrix}$$

$$\begin{bmatrix} \frac{1}{P} & \frac{1}{P} & 0 & 0 \\ 0 & 1 & 0 & 0 \\ -\frac{1}{P} & \frac{1}{P} & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix}
1 & 0 & 1 & 7 & 0 \\
0 & 1 & 0 & 0 & 1 & 0
\end{bmatrix}
\begin{bmatrix}
1 & 0 & 0 & 7 & 1 & -1 \\
0 & 1 & 0 & 0 & 1 & 0
\end{bmatrix}$$

$$\Rightarrow P_{\alpha \leftarrow \beta} = \begin{bmatrix} Y & 1 - 1 \\ 0 & 1 & 0 \end{bmatrix} \cdot \begin{bmatrix} P(\alpha) \end{bmatrix} = P_{\alpha \leftarrow \beta} \begin{bmatrix} P(\alpha) \end{bmatrix} = \begin{bmatrix} Y & 1 & -1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} Y & Y & Y \\ Y & Y & Y \end{bmatrix}$$

$$= (Y + Y - Y, 0 + Y + 0) = (19 + 94)$$

$$det(A-I)=0 \Rightarrow det\begin{bmatrix}0&0&-1\\1&1&1\\1&0&1\end{bmatrix}=\begin{bmatrix}0&0&0\\0&0&1\end{bmatrix}=0 \qquad (id)(4)$$

$$\begin{vmatrix} -\lambda & -1 \\ -\lambda & -1 \end{vmatrix} = 0 \implies (Y - \lambda)(-\lambda)(-\lambda) + 1 = 0$$

$$\lambda = Y = \lambda \quad A - Y = \begin{bmatrix} -Y & 0 & -Y \\ 1 & 0 & 1 \end{bmatrix} \sim \begin{bmatrix} 1 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix} = \gamma \chi_1 + \chi_{W} = 0$$

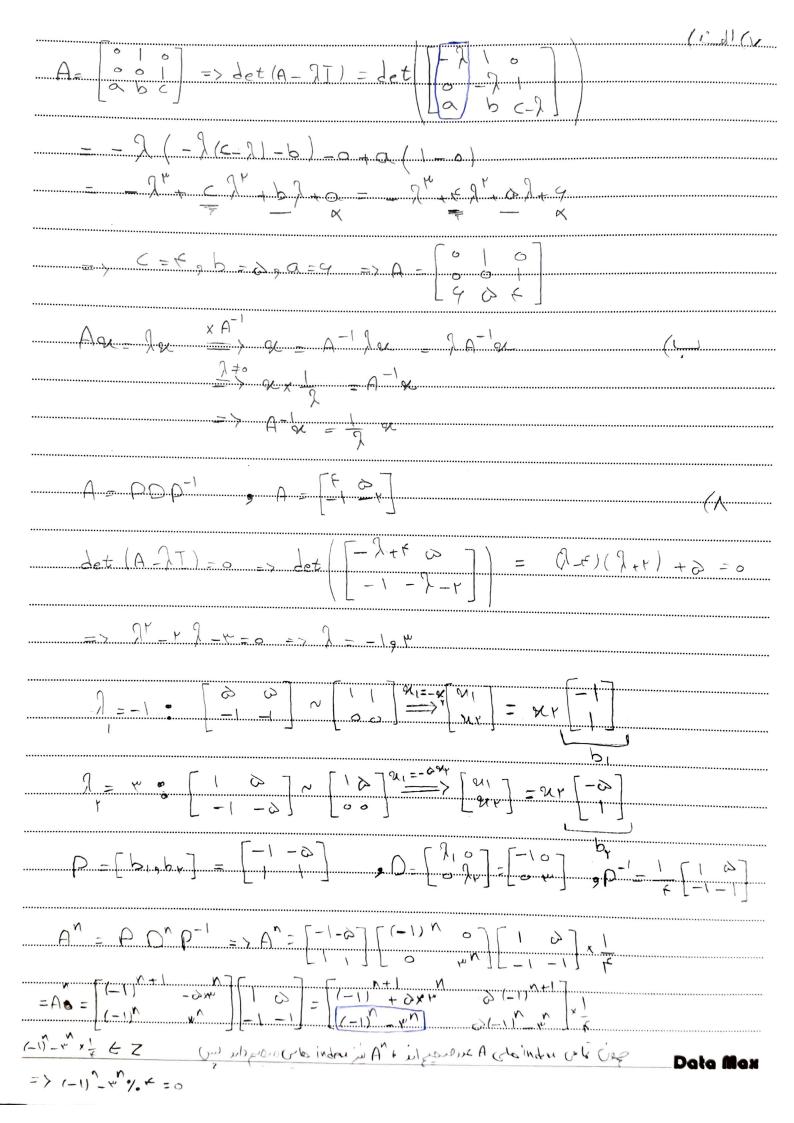
$$= \left\{ \begin{array}{c} \Omega_1 \\ \Omega_2 \\ \Omega_3 \end{array} \right\} = \left\{ \begin{array}{c} \Omega_1 \\ \Omega_3 \end{array} \right\} + \left[ \begin{array}{c} \Omega_1 \\ \Omega_3 \end{array} \right]$$

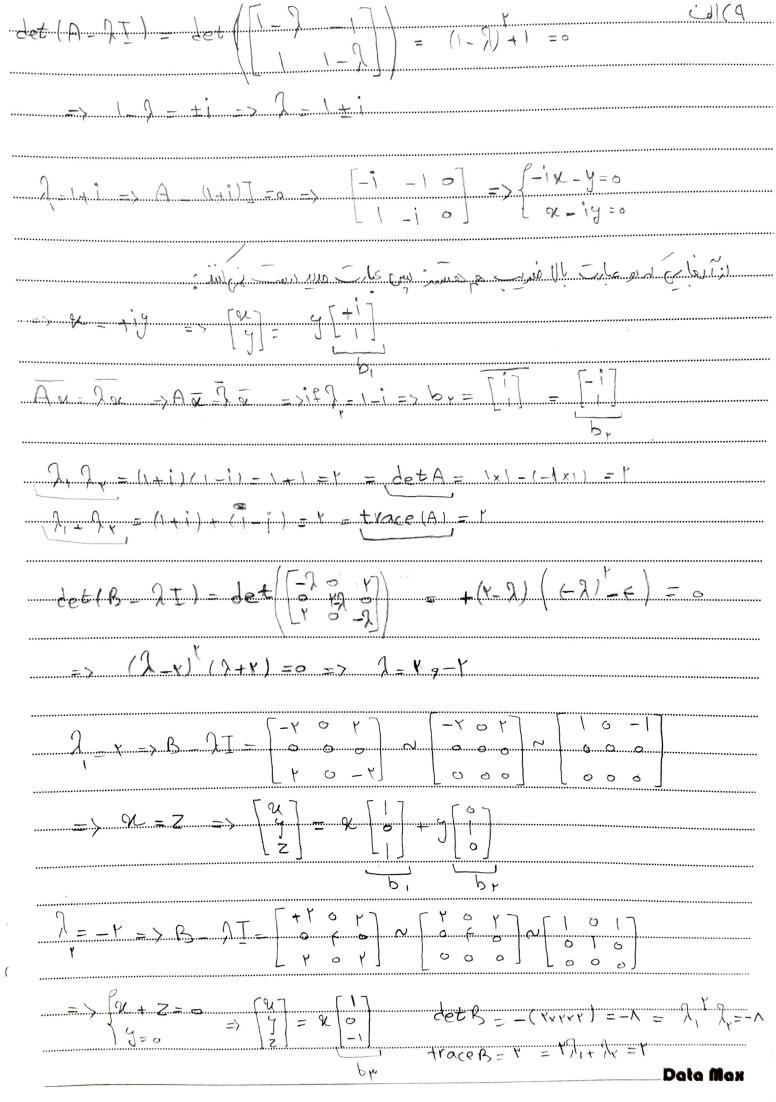
$$= \left[\begin{array}{c} N \\ 9 \\ 1 \end{array}\right] = \left[\begin{array}{c} N \\ 1 \\ 1 \end{array}\right]$$

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$$P = \begin{bmatrix} p_1 & p_2 & p_3 & p_4 \\ p_4 & p_5 & p_6 \end{bmatrix} = \begin{bmatrix} p_1 & p_2 & p_4 & p_5 \\ p_6 & p_6 & p_6 \end{bmatrix} = \begin{bmatrix} p_1 & p_2 & p_4 & p_6 \\ p_6 & p_6 & p_6 \end{bmatrix}$$

$$AP = \begin{bmatrix} 0 & 0 & -Y \\ 1 & Y & 1 \\ 1 & 0 & Y \end{bmatrix} \times \begin{bmatrix} 1 & 0 & -Y \\ 0 & 1 & 1 \\ -Y & 0 & 1 \end{bmatrix} = \begin{bmatrix} +Y & 0 & -Y \\ 0 & Y & 1 \\ -Y & 0 & 1 \end{bmatrix}, PD = \begin{bmatrix} 1 & 0 & -Y \\ 0 & 1 & 1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} Y & 0 & -Y \\ 0 & Y & 1 \\ -Y & 0 & 1 \end{bmatrix}$$





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