6126 Jule
<u> </u>
برها بهای در انوران 4000 برها
برمارها) بای



$$A = \begin{bmatrix} 2 & -6 & 1 \\ 1 & -1 & -1 \\ 0 & 1 & 1 \end{bmatrix} \qquad b = \begin{bmatrix} 2 \\ 0 \\ 1 \end{bmatrix} \qquad Ax = b$$

$$\frac{2-6}{2} = \frac{\det A_1}{\det A} = \frac{\det \left(\frac{2-6}{1-1}\right)}{2} = \frac{2\times 0+1\times (6+1)}{7} = \frac{7}{7} = 1$$

$$\mathcal{H}_{2} = \frac{\text{det A 2}}{\text{det A}} = \frac{\text{det} \left(\begin{array}{ccc} 2 & 2 & 1 \\ 1 & 0 & 1 \end{array} \right)}{7} = \frac{2 \times 1 + 1 \times (-1)}{7} = \frac{1}{7}$$

$$\mathcal{H}_3 = \frac{\text{Jet A}_3}{\text{Jet A}} = \frac{\text{Jet A}_3}{\text{F}} = \frac{\text{Jet A}_3}{\text{F}} = \frac{6}{\text{F}}$$

$$X = \begin{pmatrix} X_1 \\ Y_2 \\ X_3 \end{pmatrix} = \begin{pmatrix} 1 \\ \frac{1}{7} \\ \frac{6}{7} \end{pmatrix}$$



$$X^{\circ} = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$Y^{\circ} = \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}$$

$$X^{\circ} = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$$

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الله ا درا معادله را برست می اردم.

$$Ax=b \Rightarrow x=A^{\dagger}b$$

$$\chi - \chi^{*} = \begin{bmatrix} -6.0|.71388 \\ -6.0|.67889 \\ -0.068699 \\ 0.06121.97 \end{bmatrix} \rightarrow [[\chi - \chi^{*}]] \sim 0.0122764$$

$$\frac{\chi_{(x,y)}}{\chi_{(x,y)}} = \frac{1}{\chi_{(x,y)}} \left[\begin{array}{c} -0.02636232 \\ 0.0467608 \\ 0.0616942 \end{array} \right] = \frac{1}{\chi_{(x,y)}} \left[\begin{array}{c} -\chi^{*} \\ \chi_{(x,y)} \\ \chi_{(x,y)}$$

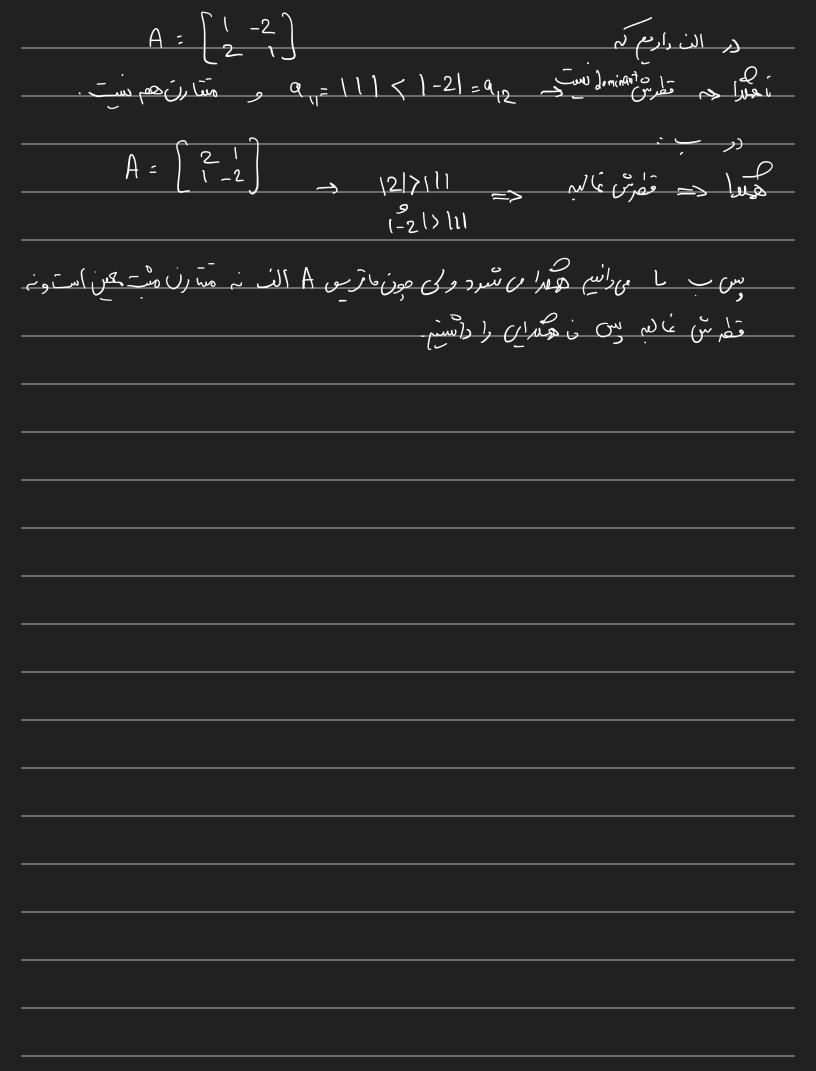
س ک رس سسل سَر ب بهری از جراب ارائه دا ره است.

$$X = 4+2y$$
 $X^{k+1} = 4+y^{k}$ (i) $y = 3-2x$ $y^{k+1} = 3-2x^{k+1}$

z:[xi]

$$\frac{z^{\circ}: \left[\cdot \right]}{g} = \frac{1}{2^{\circ}} \left[\frac{1}{-5} \right] \Rightarrow \frac{1}{2^{\circ}} \left[\frac{-1}{5} \right] \Rightarrow \frac{1}{2^{\circ}} \left[\frac{-1}{2^{\circ}} \right]$$

$$Z^{\circ} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$
 $\Rightarrow 2^{\circ} = \begin{bmatrix} 1.9687 \\ -1.25 \end{bmatrix}$ $\Rightarrow 2^{\circ} = \begin{bmatrix} 1.9687 \\ -1.0156 \end{bmatrix}$ $\Rightarrow 2^{\circ} = \begin{bmatrix} 2.0078 \\ -0.99609 \end{bmatrix}$



$$\frac{dy}{dx} = 3e^{x} + x^{2} + y = 3e^{x} + x^{2} +$$

$$\int_{0}^{9(t)} dy = \int_{0}^{3} e^{x} + x^{2} + y^{2} + y^{3} = 3(t) = \left[3e^{x} + \frac{x^{3}}{3} - 4x\right]_{0}^{t} + 0$$

=>
$$J(t) = 3e^{t} + \frac{t^{3}}{3} - 4t - (3x1+6-6) + \theta = 3e^{t} + \frac{t^{8}}{3} - 4t + \theta$$

$$\gamma = 3e^{\chi} + \frac{\chi^3}{3} - 4\chi + 2$$

كرمهادل حواب xرلاها نرقم نداره اسار.

$$k_1 = 0.1 (-2x - J) = 0.1$$

$$k_1 = 0.1 \left(-2x - y\right) = 0.1$$
 $k_2 = 0.1 \left(-2(x + 0.05) - y - \frac{k_1}{2}\right) = 0.085$
 $y = -0.915$

$$k_1 = 0.1 \left(-2x - y\right) = 0.0715$$
 $k_2 = 0.1 \left(-2(x + 0.05) - y - \frac{k_1}{2}\right) = 0.0579$
 $y = 0.8571$

3 Noy:

$$k_{1} = 0.1 \left(-2x - y\right) = 0.0457$$

$$k_{2} = 0.1 \left(-2(x + 0.05) - y - \frac{k_{1}}{2}\right) = 0.0334$$

$$y = -0.8237$$

$$k_1 = 0.1 \left(-2x - y\right) = 0.0224$$
 $k_2 = 0.1 \left(-2(x + 0.06) - y - \frac{k_1}{2}\right) = 0.0112$
 $y = -0.8124$

$$k_2 = 0.1(-2(x + 0.05) - y - \frac{k_1}{2}) = 0.012$$

 $k_1 = 0.1 (-2x - y) = 0.0012$ $k_2 = 0.1 (-2(x + 0.06) - y - \frac{k_1}{2}) = -0.0088$ y = -0.82131 No/: y (0.5) ~ -0.8213