

Suloma 2.  $\dot{X}_1 = X_2$ X.(0) =0  $\dot{X}_2 = X_1 - 6X_2$  $X_{2}(0) = 1$  $\begin{vmatrix} \dot{x}_1 \\ \dot{x}_2 \end{vmatrix} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} \quad x(\delta) = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$ D(t) = e At x(0) = Z -1 & (SI-A) -1 (X(0) Resolvamos in Matlas Vio e 3 = Senn (Vio +) 重(七)= | e-3t | tosh (1) t) | 3 (10 tonh (10 t)

Sistema 3.

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\ddot{X}_1 = -X_2 \\
\ddot{X}_2 = -X_1 + 3X_2 + 0 \\
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Sostema 4.  $\begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \begin{bmatrix} 0 \\ 2 \end{bmatrix}$ X1 = X2 X2 = - X, + 24 X.(0) =0 X2 (0) = X(0)= [ ] BU(2) 47 Resolvanos sen (t) -2 cos(t) +2  $\chi(4) =$ cos(t) + 2sen(t)