

$$\dot{X} = \begin{bmatrix} -X_2 - X_1 \\ X_1 + X_2 u \end{bmatrix} \qquad U(X)$$

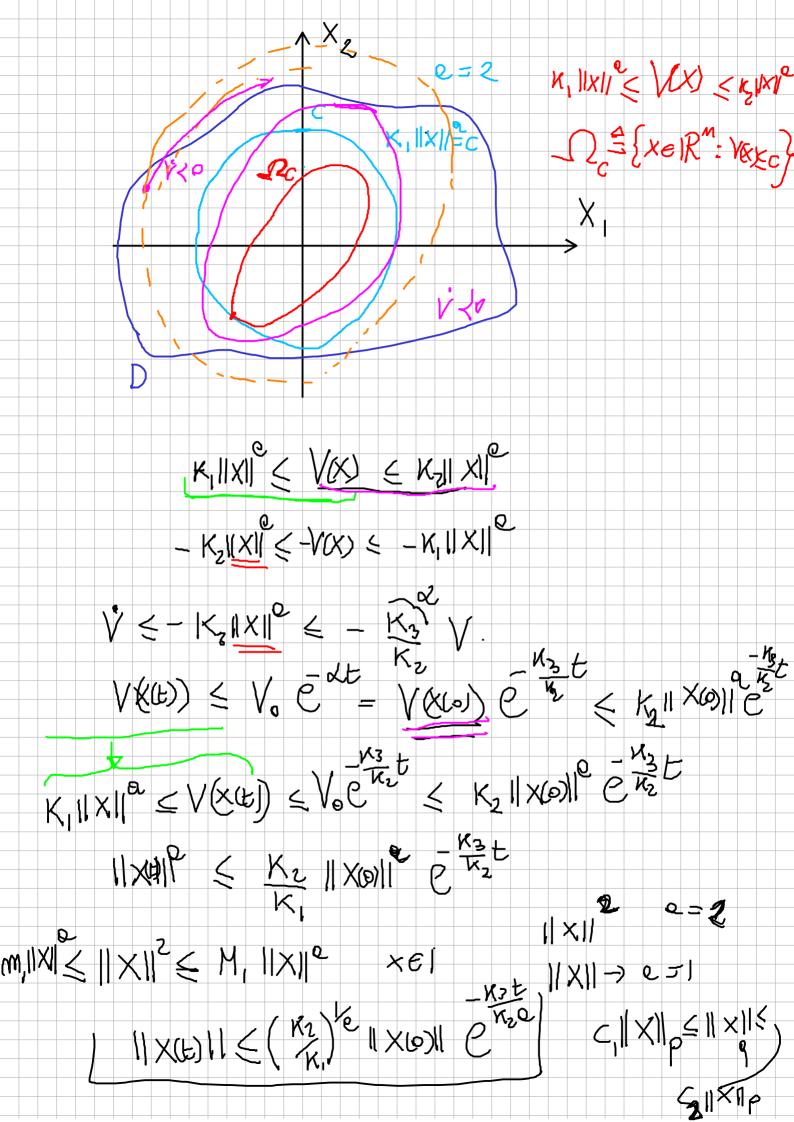
$$\dot{V} = \frac{X_1^2 + X_2^2}{2} \Rightarrow im X_e$$

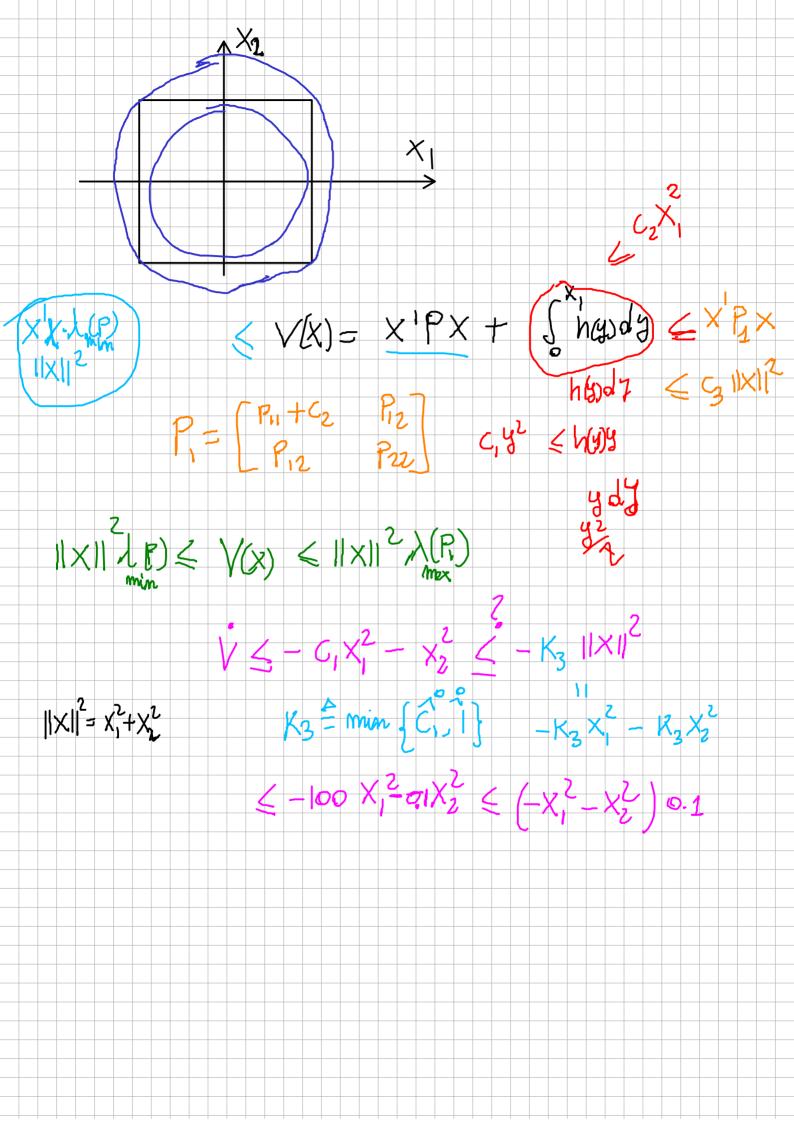
$$\dot{Y} = -X_1^2 - X_1 X_2$$

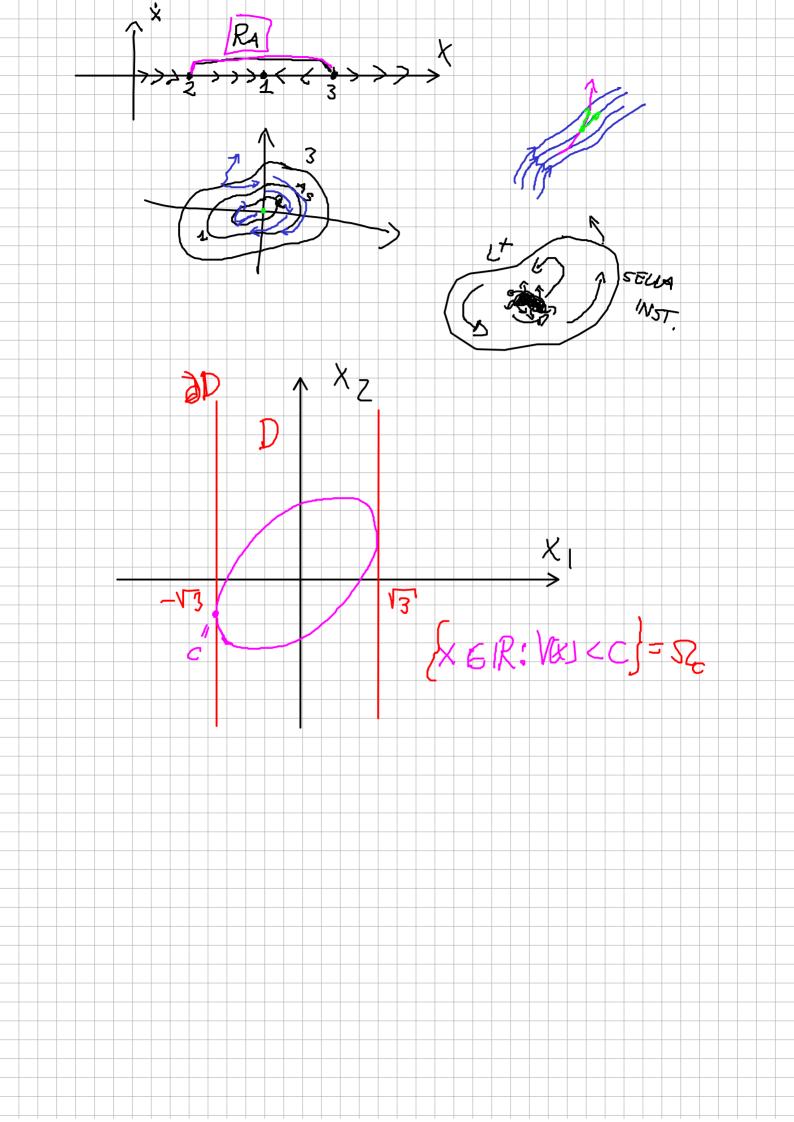
$$\dot{Y} = -X_1^2 - X_2^2$$

$$\dot{Y}$$

$$V = -(x_1 \times x_2) \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix} (x_1) + x_2 + x_3 + x_4 + x_4$$







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