$$\Delta < 0 \implies \lambda_{1,2} = \alpha \pm i\beta \quad \& \quad y_1 = e^{\alpha x} cos(\beta x), y_2 = e^{\alpha x} sin(\beta x)$$

$$f(t) = Ae^{\alpha t} \implies y_p(t) = ce^{\alpha t}$$

$$f(t) = \text{polinomio} \implies y_p(t) = At^2 + Bt + C$$

$$f(t) = \text{trigonometrico} \implies y_p(t) = Acos(vt) + Bsin(vt)$$

$$L(x, y, \lambda) = f(x, y) - \lambda \cdot g(x, y)$$

$$H_f = \begin{bmatrix} f_{xx} & f_{xy} \\ f_{yx} & f_{yy} \end{bmatrix}$$

$$\text{se } det(H_f) > 0 \text{ e } f_{xx} > 0 \text{ : Minimo locale}$$

$$\text{se } det(H_f) > 0 \text{ e } f_{xx} < 0 \text{ : Massimo locale}$$

$$\text{se } det(H_f) > 0 \text{ e } f_{xx} < 0 \text{ : Massimo locale}$$

$$\text{se } det(H_f) > 0 \text{ e } f_{xx} < 0 \text{ : Massimo locale}$$

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$$\text{se } det(H_f) > 0 \text{ e } f_{x$$