nt makesinerer the pitt =: A

$$p(t) = -tt_x' = -\frac{2t}{2x} =: 3$$

H konkar i $(x,n) =: C$
 (x^+, n^+) optimalt $pox =: 2$

updu. belinguler:

 $2 = A \wedge B$

tilch. belinguler

A $\wedge B \wedge C = D$

Chr: make $\int (1-tx-n^2) dt$

Nuccer 1 mg. pasolel

 $= \int f konkar$
 $\dot{x} = u \in R$
 $\dot{x}(0) = \dot{x}_0$, $\dot{x}(T) fri$
 $\dot{x}_0, T > 0$

thanilton - function:

 $H(t, x, n, p) = (-tx - u^2 + p)$
 $H'u = \frac{2tt}{2u} = -2u + p = 0$

$$\begin{array}{lll}
\Rightarrow & n^* = \frac{f}{2} \\
\dot{p} = -H_X' & = t , & p(T) = 0 \\
& & \text{Housewestalikh lofsingule}
\end{array}$$

$$\begin{array}{lll}
\Rightarrow & p = \frac{f^2}{2} + C \\
& & p(T) = \frac{T^2}{2} + C = 0 \Rightarrow C = -\frac{T^2}{2}
\end{array}$$

$$\begin{array}{lll}
\Rightarrow & \chi^* = \frac{f}{2} = \frac{1}{4}(t^2 - T^2) \\
\Rightarrow & \chi^* = M = \frac{1}{4}(t^2 - T^2)
\end{aligned}$$

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$$\begin{array}{lll}
\Rightarrow & \chi^* = \chi^* + M = \chi^* = \chi^$$

$$\begin{bmatrix}
\lambda \\
\rho
\end{bmatrix} = \begin{bmatrix}
1 & 1 \\
2 & -1
\end{bmatrix} \begin{bmatrix}
\lambda \\
\rho
\end{bmatrix}$$

$$= \lambda^{2} - 3$$

$$= \lambda^{1} = \pm \sqrt{3}$$

$$\begin{vmatrix}
1 - \sqrt{3} & 1 & 0 \\
2 & -1 - \sqrt{3} & 0
\end{vmatrix}$$

$$\begin{vmatrix}
0 & 1 & -\frac{1}{\sqrt{3}} & 0 \\
0 & -\frac{1}{\sqrt{3}} & \frac{1}{\sqrt{3}} & 0
\end{vmatrix}$$

$$\begin{vmatrix}
1 + \sqrt{3} & 1 & 0 \\
0 & -\frac{1}{\sqrt{3}} & \frac{1}{\sqrt{3}} & 0
\end{vmatrix}$$

$$\begin{vmatrix}
1 & 1 & 0 \\
0 & -\frac{1}{\sqrt{3}} & \frac{1}{\sqrt{3}} & 0
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\end{vmatrix}$$

$$\begin{vmatrix}
1 & 1 & \sqrt{3} & 0 \\
0$$

$$-\frac{1}{1-\sqrt{3}} - \frac{1}{1+\sqrt{3}} | 1$$

$$e^{737} - \frac{1}{1+\sqrt{3}} | 1$$

$$e^{737} - \frac{1}{1+\sqrt{3}} | 1$$

$$-\frac{(1+\sqrt{3})(1-\sqrt{3})}{1+\sqrt{3}-(1-\sqrt{3})} = A$$

$$\frac{(1-\sqrt{3})(1+\sqrt{3})}{e^{-2\sqrt{3}7}(1+\sqrt{3})-(1-\sqrt{3})} = B$$

$$\Rightarrow) x''(t) = \frac{1+\sqrt{3}}{1+\sqrt{3}-(1-\sqrt{3})}e^{2\sqrt{3}7} e^{4\sqrt{3}t}$$

$$-\frac{1-\sqrt{3}}{e^{2-\sqrt{3}7}(1+\sqrt{3})-(1-\sqrt{3})}e^{-\sqrt{3}t}$$

$$p(t) = A e^{-\sqrt{3}t} + R e^{-\sqrt{3}t}$$

$$y''(t) = p(t) = A e^{-\sqrt{3}t} + B e^{-\sqrt{3}t}$$