Given, 
$$\chi_{L+1} = \chi_L + St \chi_L + \omega_L^{\chi}$$
  
 $\chi_{L+1} = \chi_L + St \chi_L + \omega_L^{\chi}$   
 $\psi_{L+1} = \psi_L + St \psi_L + \omega_L^{\psi}$ 

& landmarks don't change.

$$\begin{array}{c}
\chi_{t+1} = \begin{pmatrix} \chi_{t} \\ \chi_{t+1} \\ \chi_{t+1}$$

$$= \begin{cases} \chi_{t+1} \\ \chi_{t+1} \\$$

$$h(x_{t}) = \begin{cases} ||m| - P_{t}|| \\ ||m' - P_{t}|| \\ ||a_{t}|| + ||a_{$$

$$Ht = \begin{bmatrix} \frac{\partial h}{\partial x} \\ \frac{\partial h}{\partial x} \end{bmatrix} = \begin{bmatrix} \frac{\partial h}{\partial x} \\ \frac{\partial h}{\partial x} \\ \frac{\partial h}{\partial x} \end{bmatrix} = \begin{bmatrix} \frac{\partial h}{\partial x} \\ \frac{\partial h}{\partial x} \\$$

For 
$$h_1 - h_n$$
,
$$\frac{\partial h_i}{\partial x} = \frac{x - mx}{(x - mx^2)^2 + (y - my^2)^2} \frac{\partial h_i}{\partial y} = \frac{y - my^2}{(x - mx^2 + (y - my^2)^2)^2}$$

$$\frac{\partial hi}{\partial \psi} = 0; \quad \frac{\partial hi}{\partial m_{x}^{2}} = \frac{M_{x}^{2} - x}{(m_{x}^{2} - x)^{2} + (m_{y}^{2} - y)^{2}} \frac{\partial hi}{(m_{y}^{2} - y)^{2} + (m_{y}^{2} - x)^{2}} \frac{\partial hi}{(m_{y}^{2} - y)^{2} + (m_{y}^{2} - y)^{2}} \frac{\partial hi}{(m_{x}^{2} - x)^{2} + (m_{y}^{2} - y)^{2}} \frac{\partial hi}{\partial x} = \frac{X - M_{x}^{2}}{(m_{x}^{2} - x)^{2} + (m_{y}^{2} - y)^{2}} \frac{\partial hi}{\partial x} = \frac{X - M_{x}^{2}}{(m_{x}^{2} - x)^{2} + (m_{y}^{2} - y)^{2}} \frac{\partial hi}{\partial x} = 0; \quad \frac{\partial hi}{\partial x} = 0;$$

H= \( \times \frac{\mathcal{m}}{\mathcal{m}} \frac{\mathcal{m}