Gradient descent for livear legislion repeat until couverger ce & 00 3= 00- x2 (ho(x(i)) -y(i)) 0,3=0,-x=((ho(x(i))-y(i)) 2(i)) (Update 00 & 0, simuntaireously) $T(0_0,0_1) = \frac{1}{2m} \sum_{i=1}^{m} (h_0(x^{(i)}) - y^{(i)})^2$ $J(0,1) = ? = \frac{1}{8}(1, +1 + 1 + 1)$ $=\frac{1}{2}\left(\frac{12}{532}\right)^{+2}$ 1 2 0 1 4 3 ho(6) = Oo + O, n $\begin{bmatrix} -4 \\ 0 \\ 1 \\ 2 \end{bmatrix} = -2 + \frac{1}{2} \times 6 \begin{bmatrix} 2 & 2 & 2 \\ 2 & 2 & 2 \\ 2 & 2 & 2 \end{bmatrix}$ $= 1 \quad 2 \cdot (4 - 4) \cdot (4 - 4$ d 3 - (0) - (1) 0 - (1 $\begin{bmatrix} 27 \\ 12 \\ 3! \end{bmatrix} \begin{bmatrix} 3 \\ 12 \\ 11 \end{bmatrix} \begin{bmatrix} 3 \\ 2 \\ 3 \end{bmatrix}$