$$\theta = (\chi^{\intercal}\chi)^{-1}\chi^{\intercal}\gamma$$

$$X_{0} = \begin{bmatrix} X_{0} & X_{0} & X_{0} \\ 1 & -2 \\ 1 & -5 \\ 1 & 0 \\ 1 & 0 \end{bmatrix}$$

$$\chi^{\dagger}\chi = \begin{vmatrix} 10 & -9 \\ -9 & 169 \end{vmatrix}_{2x2}$$

$$\chi^{\dagger}\gamma_{=} \begin{vmatrix} 14 \\ -79 \end{vmatrix}_{2n}$$

$$\theta^{0} = \frac{1600}{1622} \quad \theta^{1} = \frac{1600}{1600}$$

$$\frac{dJ}{dx_1} = 2(x_1 + x_2 - 2)^2 \qquad \qquad | \frac{dJ}{dx_2} = 2(x_1 + x_2 - 2) \cdot (1)$$

$$\frac{dJ}{dx_1} = 2(x_1 + x_2 - 2) \cdot (2)$$

$$\frac{dJ}{dx_2} = 2x_1 + 2x_2 - 4$$

Done in Jungler interest

$$J = x_2 = 0$$
, $x_1 = 2$ is 0
 $J = x_2 = 1$, $x_1 = 1$ is 0
 $J = x_2 = 2$, $x_1 = 0$ is 0

Pate) - Done in Inpyter noteball

Part I - Dome in juppel notebook -