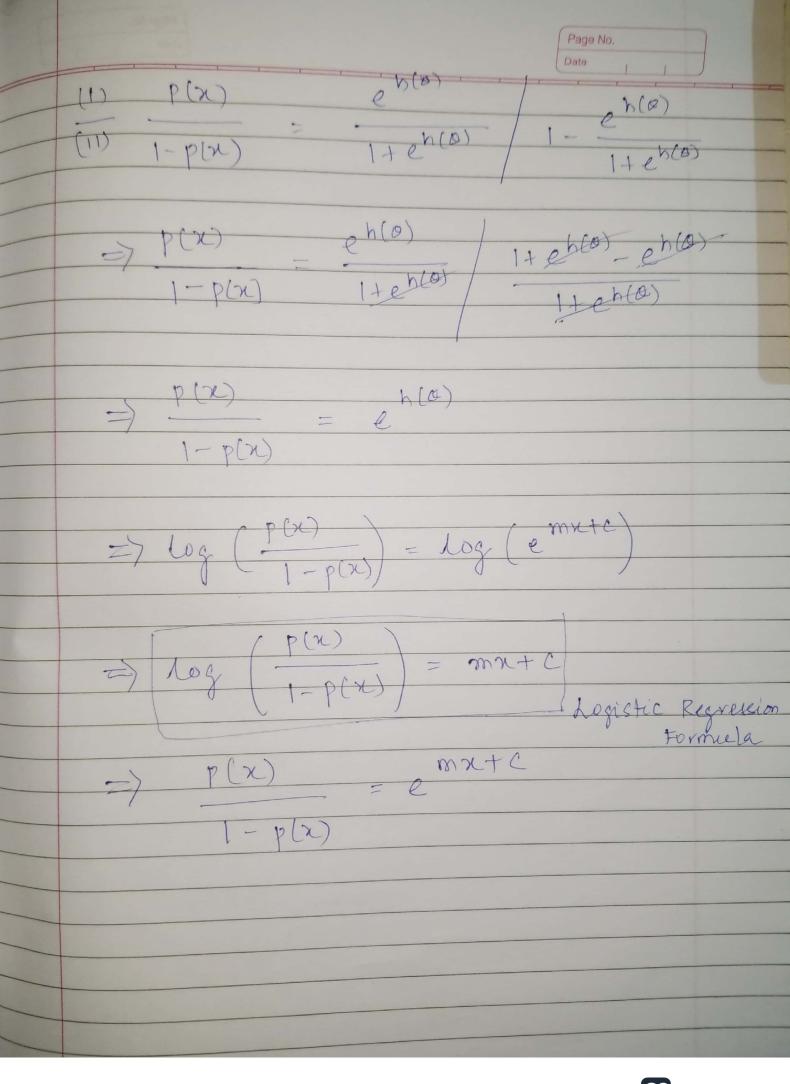
Page No. signoid Function - OLf(x)
Congire value [b, 1], given a Line = mx+c

sigmoid Function - O < f(x) < 1 - Cangire value [b, 1], given a Line fleine is given to you, predict object this side! that side! h(0) = mx+c $p(x) = 1 - \frac{e^{h(0)}}{|+e^{h(0)}|}$



Cost Function $J(\theta) = -1 \leq \frac{m}{m} \left[y^{i} \log(p^{(i)}) + (1 - y^{(i)}) \log(1 - p^{(i)}) \right]$ for lingle instance, lost $(p(n), y) = (-\log(p(x)), if y = 1$)-log(1-p(x)), if y=0 minimial J(6); lost & Error & - We choose this as line or separate Logistic Function = -(mp4+m2x2+---+c)