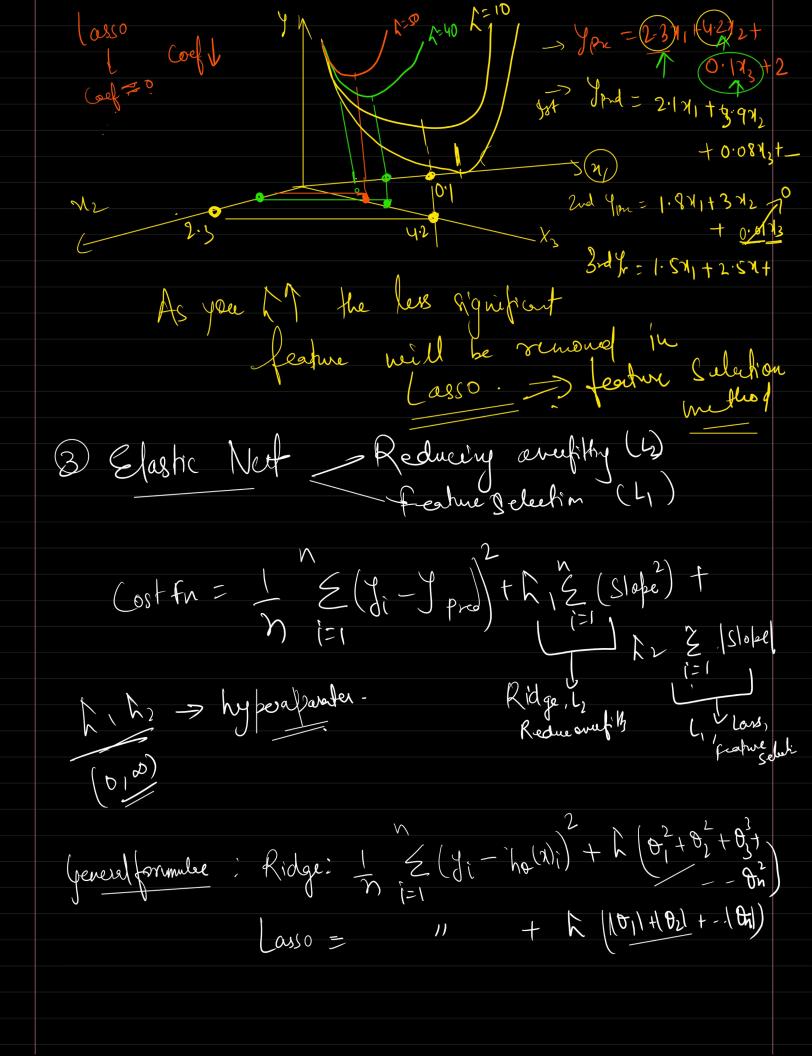


(asso (h m)) Ridge (Lm2) > L2 norm penely > 4 norm fenelty - KAMP $\rightarrow \lambda \uparrow m$ > m will herer becomo, >> M will become it will be close to ? - Advantage > Reduces the overfitting (by reducing the Coefficience) -> effective in handling Multi Collinearity. -> removing inerguipiant (reducing all the coeff) Aufmutic feature Schedien χ_1 χ_2 χ_3 > hulticellinearly - overfitty > x1~[x2 x3] Xiis also passed, XIX 15 also Parsed => memon'sation hoppen > overfilty Ridge reduce overfitting > reduce methical brearily as > disadvantage > doesn't make least important feature conflicient to0, feature selection Jand = 2.37, +4.272 + 0.0173 + 2 M V



Why lasso makes Coeff 6, Ridg near to 0? Ridge (=0 $CF = \left(y - mxi\right)^2 + km^2$ $\frac{\partial CF}{\partial m} = 0 - 2\chi y + 2m\chi^2 + 2km = 0$ \Rightarrow $m(x^2+h)=xy$ for larger h, m can be 0: [m,]=2 $\frac{(asso)}{(asso)} - (y_i - m_{i})^2 + \lambda |m|$ $= 3^2 - 2nm + m^2n^2 + h^m$ $= -2\pi y + 2\pi m + h = 0$ $= M = 2 \frac{\lambda y - \lambda}{2 \lambda^2}$ $= \lambda = 2$ for different h, there can be Intime possibilities that Lasso Can be