: - 2 x y + 2 (x x x) 10 = 0 grand s $-2xTy=-2(x^{2}x)$ $x^{2}y=(x^{2}x)$ (XTX TXV W = XTY): (A Multyping both order by real UA(XXXIVII) Deson (x TX + 1) - (x TX + 1/1) w Apple (XX +SI) - X-1917 LA -2xy+2(xtxx/)w=0 : Xy - XXIW Now multyry by (x x + 11)-1 (x x x + 1) (x x x + 11) w = (x x + 1) x y w = (x x + 1) -1 x y w: (x x + kt)-1x74 which is Ridge Regression