this distribution given x $y = \omega_0 + \omega_1 x$ f(x) di $t \sim N(t/y(x, \omega), -)$ $(x_1, t_1) \quad (x_2, t_2) - - - - (x_N, t_N)$ is our assumption b((27,4), (22,42), ---, (20,4N) | y(x,w)) $J(x, \omega) = \omega_{0} + \omega_{1} x$ maximise b for wo, w, Lets assume mean is torget, variance is some otherwise, the problem is very hard N = 1 max (-N/g217-N/gy - - 1/2 & (custul 991)-th) Cus u/ (2007-1/2) $\max \left[\frac{1}{2\pi^2} \sum_{n=1}^{N} (Cubicu, n) - (n)^2 \right]$ $\omega_0, \omega_1 \left[\frac{1}{2\pi^2} \sum_{n=1}^{N} (Cubicu, n) - (n)^2 \right]$ I min $\left[\frac{1}{2}\right] = SSE$ $((\omega_0 + \omega_1 \chi_n) - (\ln)^2) = SSE$ (-2 iscentiant) Wow to minimize? You already know, bish.