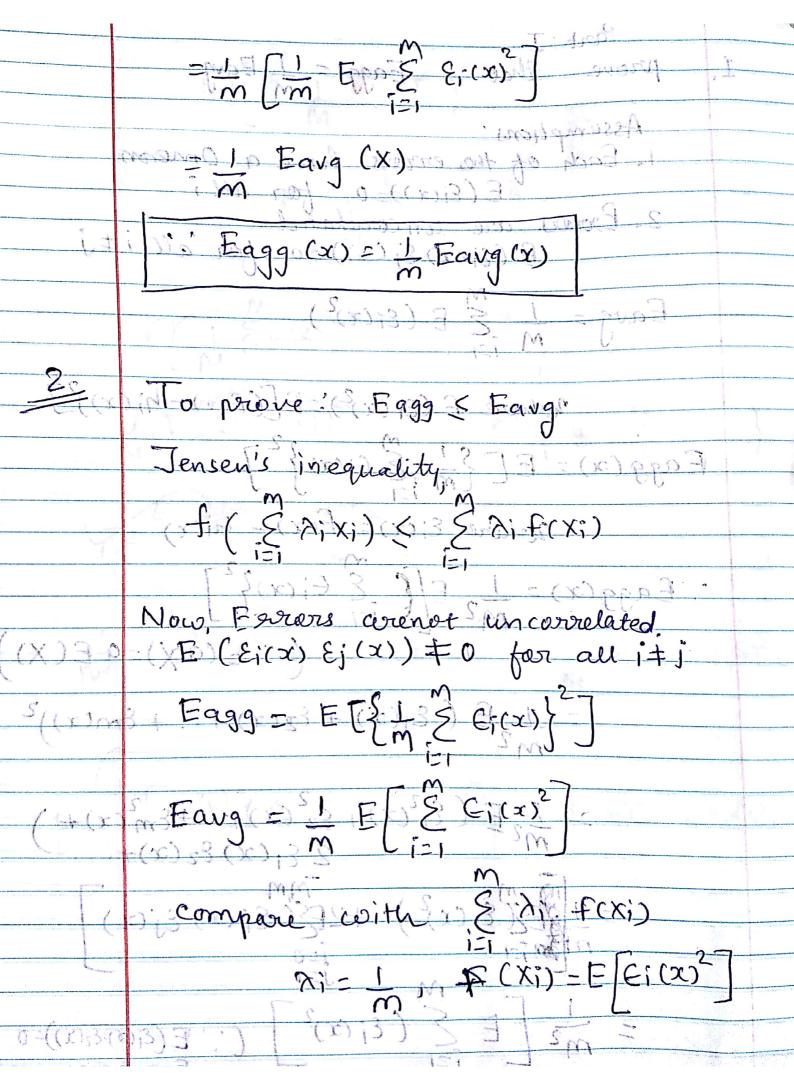
that Eagg = Assumptions: Each of the errors have a Omean E(Ei(x))=0 for all i 2 Front are un correlated

(E(E(a) E(a)) = 0 for all i ti Favg =  $\frac{1}{M} \lesssim E(Ei(x)^2)$ nohore E (Ei (x)) = E[(f(e) - hi (x))2] Eagg(x) = E[{\frac{1}{m}, \frac{8}{5}, \frac{1}{5}, \frac{2}{3}}] (x where Eix) = fox :- hicx)  $\frac{1}{12} \left[ \frac{1}{12} \left[ \frac{1}$ = ((x) (3 (x):E(ax)= 9 E(x)) = (106 (2) + E2(x)+ + Em(x))2  $\frac{\xi_{1}^{2}(x) + \xi_{2}^{2}(x) + \dots + \xi_{m}^{2}(x) +}{2^{2} \xi_{1}(x) \xi_{2}(x) + \dots}$ -m,m ) +2ΕΣ(εμ(x) εί(x) (· E(E(3).E(X))=0 Exter one uncorable



We have to prove Eagg ( Eavg  $\leq E\left(\frac{2}{5} + C_{1}(x)^{2}\right) \leq$ : As per canchy Schwarz in equality, (SI Ci (sc) E, (x) + E2(x)+.+Em(x)) (E