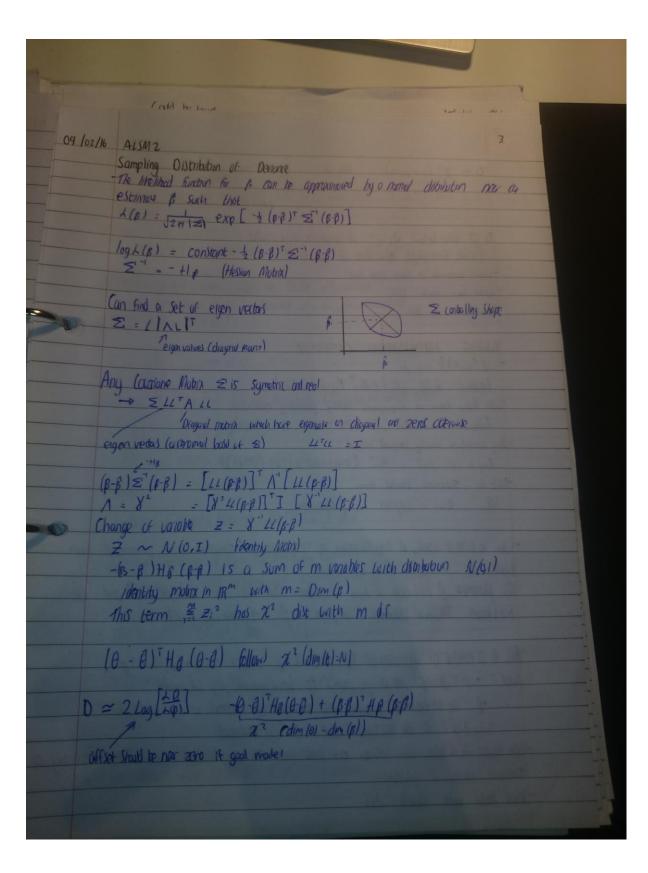
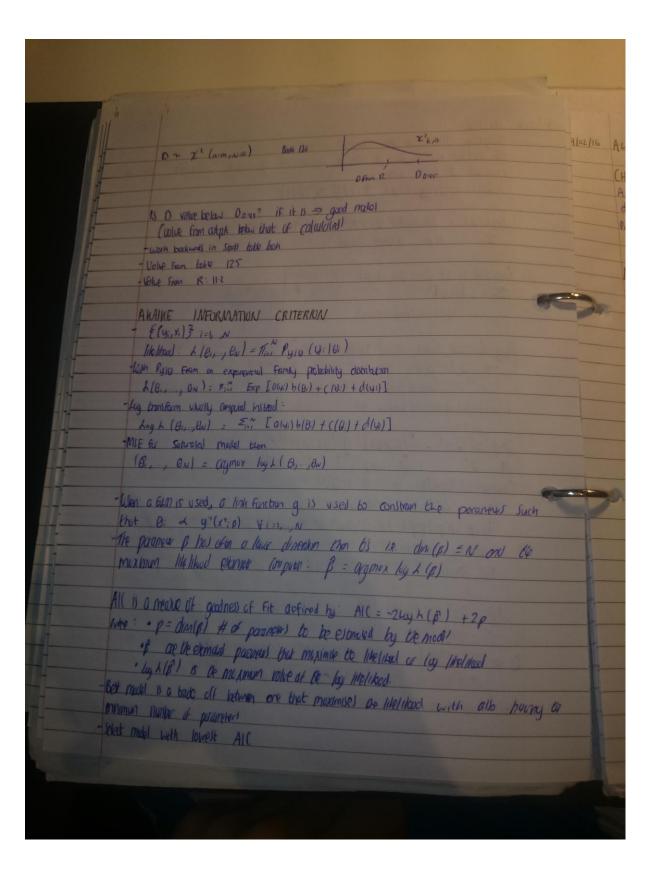
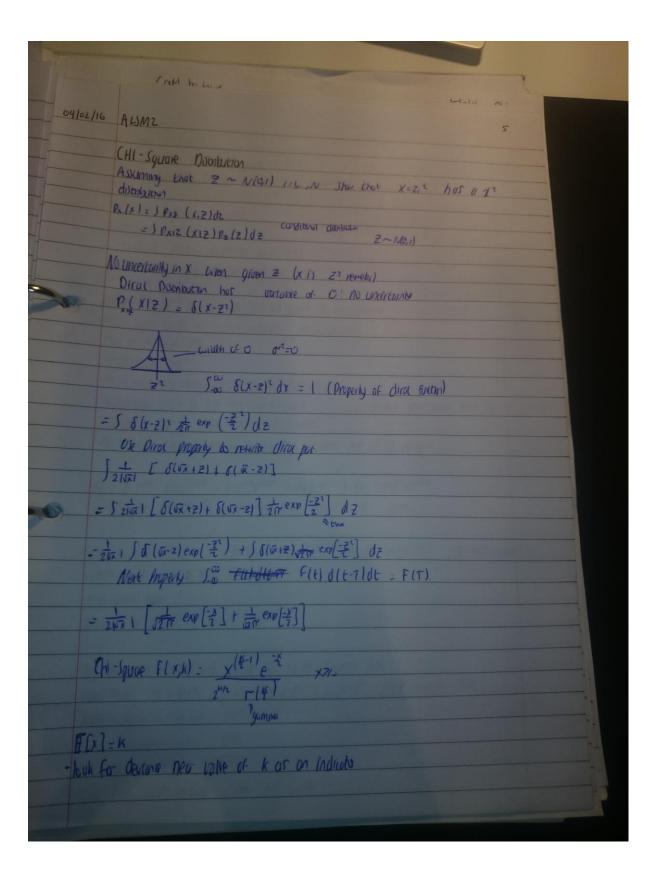


Using Taylor expansion, tay litelihood can be approximated near to meximum For sotuted model with notation (U, , ON) =0, when & close to 0 Log L(0) = (09 L(0) + (00) V6 + + (0-0) +1 (0-0) To Gradient of log 1 function computed at 8 DE = [d lay(4) 10) Vector of dim(N) Almor, derivative = 0 on equal 0 be more 6 is Alay(L) 18 max direliad solver so term is ging away He : Hellian Matrix of ky L f" amputal at ô Moon will retur a negative volve Obe it is a second derivative? Herry Mobile is symptonic and R > can compare eigenvolves/veller Similarly for GLM model, when β is close to β :

Ley $\lambda(\beta) \simeq \log \lambda(\beta) + (\beta - \beta)^T \nabla \beta + \frac{1}{2} (\beta - \beta) H_{\beta} (\beta - \beta)$ In both case to, the are zero vectors since it and it are muxima of lag 2 - Ro write approximation of devices next of our of D= 2 = log h(6) - Log h(B) } = 2 { log [1 =] - (0 =) + (0 =) - log (0) - \frac{1}{2} (0 = 0) \frac{1}{2} \frac{1}{ The bern v is positive and will be now 0 if GLM model Fit doly almost oswell as the soturated midel obes. Hession problem computed at max Hip Ho? will be register.







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