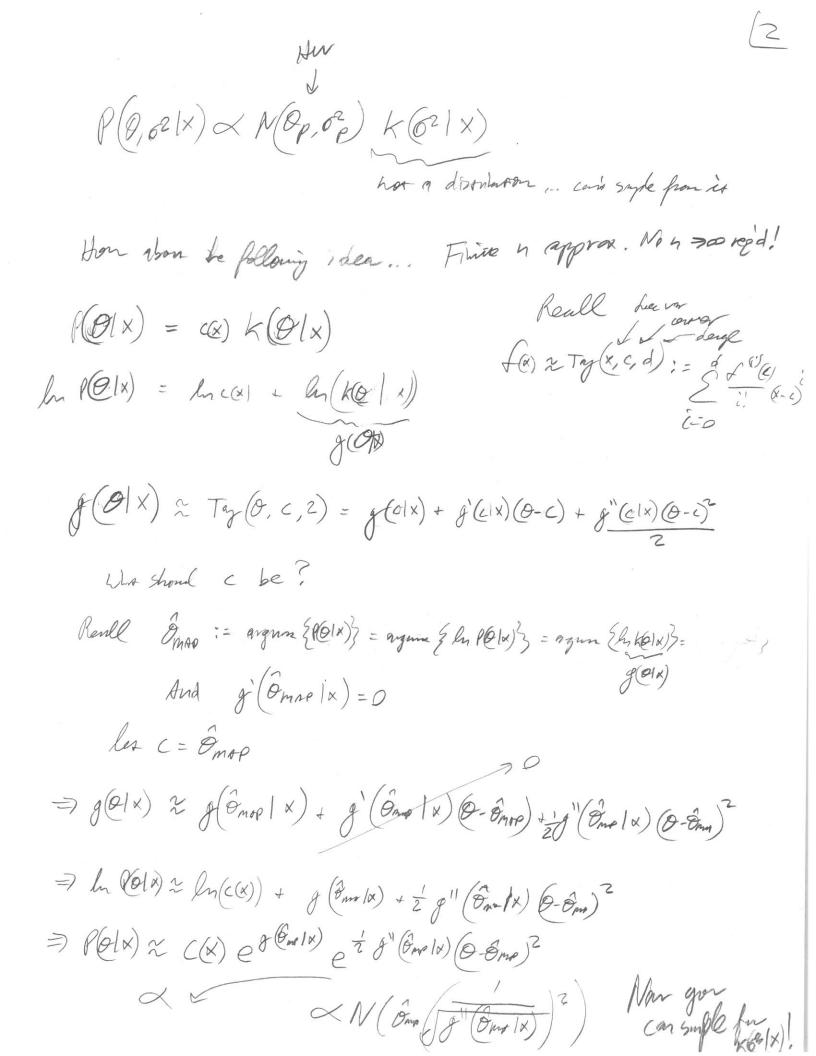
Lecone 15 Panh 390.03-01 414/16 Situation Semi Conjugary You Khow 62 1 0 a priori P(0,02) = P(0)P(02) there's no dependency when P(6) is conj prior for P(62/X,8) Or N (150, 102), 6244Kann So. and P(O) (1), P(O 1X, 62) o'n Taffeys bus P(0,02) is not carji print for P(0,02/X) Or N(Mo, t2) 62 ~ Janbonn (20, 2003) P(0,021x) X P(x10,02) P(0) P(0) $\propto (62)^{-\frac{h}{2}} e^{-\frac{1}{262}(h-1)S_{+}} (h-1)S_{+} (k-0)) e^{-\frac{1}{24}(0-m_{0})^{2}} (6^{2})^{-\frac{h_{0}}{2}+1} e^{-\frac{\nu_{0}\delta_{0}^{2}}{2}/\sqrt{8^{2}}}$ $\propto e^{-\frac{h}{2\sigma^2}(X-\theta)^2} e^{-\frac{\theta^2}{2\sigma^2}} e^{\frac{\theta h_0}{2\sigma}} (\sigma^2)^{-\frac{(\nu_0+\nu_0+1)}{2}} e^{-\frac{\nu_0}{2\sigma}\frac{\theta^2}{2}} / \sigma^2$ = e zerxt hx8 e noz $= e^{\left(\frac{1}{\sqrt{\chi}} + \frac{m_0}{2}\right)} \theta - \left(\frac{1}{2\pi^2} + \frac{n_0}{2\sigma^2}\right) \theta^2 \left(\sigma^2\right)^2 \left(\sigma$ - = 9 / d=6 $-\frac{1}{2\nu}\left(\Theta-d\right)^2 = -\frac{1}{2\nu}\left(\Theta^2 \cdot 2d\Theta + d^2\right) = \underbrace{\Theta^2}_{-2\nu} + d\Theta - \frac{d^2}{2\nu}$ = 162/X) Of P(62/X) rnon-> de en en 11 I have do you do?



loes shis make sene?

E(OIX) 2 OMAP Yes ...

Reull Orbean (1,1)

X = D, h = 3

Olx ~ Beta (1, 4)

ROIN)

ROIN

NO.-

Unless you really shock the shope of the posterior is normal...

Ness iden

Q(0,02/x) ~ N(0p,00) k(02/x)

Lets de te folloing. create a god &Oi, ..., Do3

every spaced

The calculate $2 := \left(\frac{G}{g} \times \left(\frac{G}{g}$

P(glx) 2 c k(glx)

In practice -- top all top (x) to cross FO(x) = Sito(x)

Draw yorkers) at sean F-1(4/x)

Badunger () Nuverially grable, K(Olx)=0 er a in a copur Sol: Souple In KO(x) and exponenting oftenhale (2) What sypote school set shall be use? $G_{\mu}^{2} \in [0.0001, 1,000,000]$ read to make these delision If you make a wany decime. - you may miss some of the offere syport. In our case, he know $0^2 | X$ is grimedal, so are can end the grid when $k(0^2 | X)$ gets sull as 0^2 ? and we can some close to 0. (3) In moliple disensions, suferside. Em 1000 is so in a conquer.

For now, grid sapling dray, one he will tench ten idea soon! We will take a break from Byesin. Soult to diseas the liver model; bedrock of all stat, madeling.

(5 Obsider drus from a bismine distribution X, V < x1, y1> WOG, let y be the (X21/2) "response" or legisles " emble (Yn 1 Yn > and & is de "Leasure", "cornite", "regressor", helpeler" variable X affects of chief my or my not be a causal offer Causality beyond scepe of X f, E y show is sone shown of onl som hoise genum & E (epsla) Y= f(x) + & The good is to made f. f(d) ∈ 7 does 1 by gode our stare! bet for our proposes how ... hestory f(x) ∈ Fin := { Po+B, x: Po ∈R, p, ∈R} And pessors E = h(x), hoise is integraling Before he get into renton variles .. -