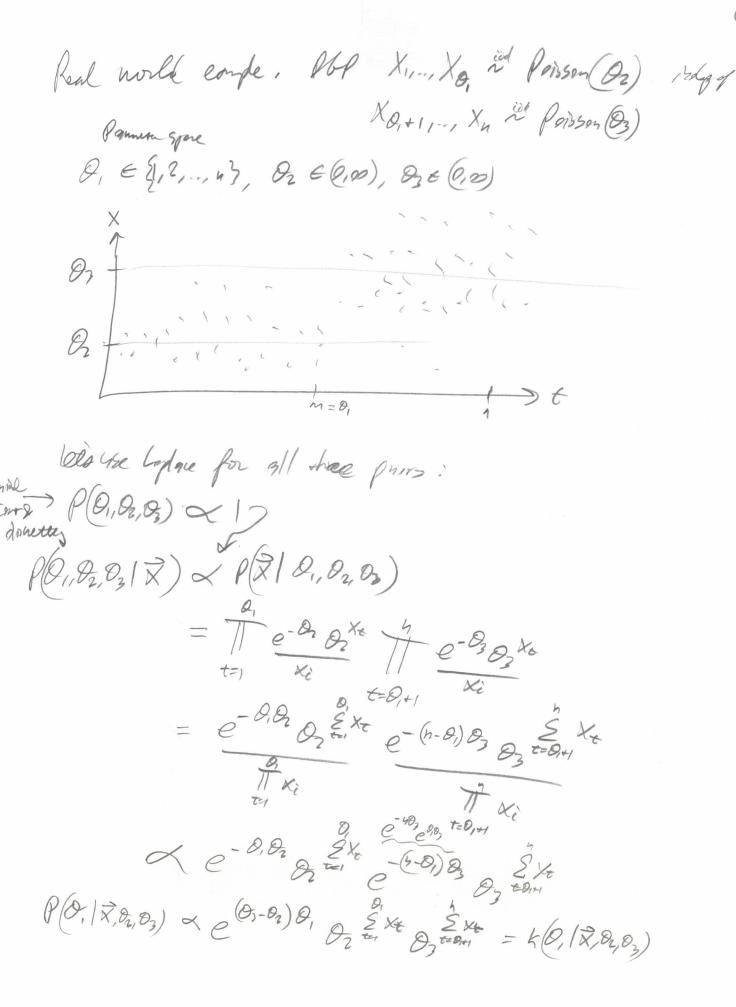
Leerne 23 MATH A (64) (FINAL) Poskiner Pickene Inserves Willand, Xum Xn Xx data Surve obsenson Use dans and prior => posterior din P(DIX) 490 Welihood + posterior => posterior don P(Xx/Z) Whorif I ware a rouge of possible value for Xe? PIX, 1-x := [Q[Xolix,], Q[Xolix, 1-\feq]] Philipper prob. The three yes re esperal to know ... For X-Bum, On Bou(xB) = Olx ~ Ben(x+x, B++-x) => Xx1 x ~ Bealinn (n, x+x, b+1-x) => PION,1-0 = [qbesabinon (x, h, a+x, b+n-x), gbernbion (1-8, h, a+x, b+n-x)] Fro Ky-, Kn & Position (), Dr bumm () =) Oli n Gomm (a + Exi, B+n)

= Keli n Edolybu (x + Ext, Bort) =) PIXe, 1-a = [qubihm(&, x+Eu, form), qubihm(1-x, xx Eus, form)] For Kin, Ky Et NO,62), A(0,62) x (62) " (Toffigs) = 0,02 (2 ~ Normthubum (1,1,1) => Xx 1 x ~ Ti-, (x, miss) => PION, 1-X = [9 tisuld (=, n-1, x, not se), 9 tiscald (1-2, n-1, x, 2+52)] [ENO

160 = +0163 (0,62), Of 62 bosh 4364min Cet, when for = N(no, 02) indep of for = Imbanom (40, 40002) Conjugar Noun Invariam diver. Who hopen won? $f(0,6^{2}|X) \propto f(X)\theta_{0}\theta^{2} f(0)f(0) \int_{0}^{1} \int_{0}$ $= (\sigma^{2})^{-\frac{1}{2} - \frac{1}{2} - \frac{1}{2}} e^{-\frac{A}{\sigma^{2}}} e^{-\frac{A}{\sigma^{2}$ $N\left(\frac{n\overline{x}}{\sigma^2} + \frac{no}{\overline{v}^2}, \frac{1}{\sigma^2} + \frac{1}{\overline{v}^2}\right) = P(0|\overline{x}, \sigma)$ $k(\sigma^{1}|\vec{x})\alpha(\sigma^{2})^{-\frac{1}{2}-1} = \frac{A}{\sigma^{2}} \left(\frac{A}{\sigma^{2}} + \frac{A}{\sigma^{2}}\right)^{2} = \frac{A}{\sigma^{2}} \left(\frac{A}{\sigma^{2}} + \frac{A}{\sigma^{2}}\right)^{2}$ which is not the kernel of the second of the seco $= (\sigma^2)^{\frac{2}{3}} e^{-\frac{\partial_2}{\sigma^2}} \left(\frac{\partial_3}{\sigma^2} + \partial_4\right)^{-\frac{1}{2}} e^{-\frac{\partial_3}{\sigma^2} + \partial_5} e^{\frac{\partial_3}{\sigma^2} + \partial_5}$ In fact, it has 6 parans! What com he do? We can still find [3 map] Com he Ling Jimuse? If we can simple from Algor (2), he can get simples of (0, 8, 7, (02, 02), ..., (Os, 03). Han Sold is apparent Un B1, B2, ..., Os and A62/2) is approanne van of, 02,..., 03.

You can use the souples to the supposeme d'une d'une d'une d'une d'une (Re, rds) (Roga, -do and punks for tests. How to syle? $\mathcal{L}(\theta, \rho_0 | \overline{x}) = \mathcal{L}(\theta | \overline{x}, \sigma) \mathcal{L}(\theta | \overline{x}) \qquad \text{for } \overline{x} \leq 20$ $\mathcal{L}(\theta, \rho_0 | \overline{x}) = \mathcal{L}(\theta | \overline{x}, \sigma) \mathcal{L}(\theta | \overline{x}) \qquad \text{for } \overline{x} \leq 20$ 1) sight of fun fortil or (3 Repen 1-2 5 stran, to Down (Dir., 85), (09, -, 03) How to Syleton for 12)? Grid souple Kor/2) to Ind wondrown Costate. Then build F(2/2). Then sight a form (O) and And "02 St F(02/2) = 4. Hon to get A(XIX)? Do singling above. Styl Styl San Styl 3 Suple Xx Som No or Peper Styp 1-3 to detre (Xx, ... Xx, ... Xx,). You can then come E(X+12), PIXa, 1-x, etc... How undis fail? Right now you used good suffing the approx. $F(62|\overline{x})$ from $k(62|\overline{x})$. If there were may drawsom, quit Serich fails. hy? dm(3)=10, Ym ha 1,000,000,000 sayles, this of 10109 2 8 points for each drawn son seed have your resolver. Is the quoter my?

he kam the f(| x, 0) = N(Op, 02) f(02/x,0) = Imborn (2, 4060+ 102 me) The symmet steep Gibbs Supler approxima AD,02/2) vin Sup 7: Dran of fin f(62/2,0) Nove: Other is deplie of De In 343, E hope ne will prove to by Markor Chan +heavy. 5/4 31 Pm D, An LO(2,00) Sung P: Pm 62 An AG2/2,0 Sup 5, Pm 92 fm fold, 00) Pepers will "Comengence" and the collect my syla, B > "B for barn - 1211 pt of comenzance Perand but shurred is only I of eng Tacker Since the Singles are deputer on these prevents. Throng by T boreaks this deplene and A reals in cid songle for p(0/x).



This is not the kernel of any Kronn distr. Lackey good

Surfaing is sound some $0, \in \{1, 2, ..., n\}$ $\Rightarrow c = \sum_{Q \in \{2, ..., n\}} f(0, |\overline{X}, 0_2, 0_3)$ $\Rightarrow P(0, |\overline{X}, 0_2, 0_3) = ch(0, |\overline{X}, 0_2, 0_3) \quad \text{which can them be supply from }$ $f(0, |\overline{X}, 0_1, 0_3) \propto e^{-0, 0_2} \underbrace{\sum_{Q \in \mathcal{Q}} K_C + 1 - 1}_{E_{Q,Q}} \propto \underbrace{Cgnnn}_{E_{Q,Q,Q}}(1 + \underbrace{\sum_{Q \in \mathcal{Q}} K_C + 1 - 1}_{E_{Q,Q,Q}})$ $f(0, |\overline{X}, 0_1, 0_2) \propto e^{-(4-0)0_3} \underbrace{\sum_{Q \in \mathcal{Q}} K_C + 1 - 1}_{E_{Q,Q,Q}} \propto \underbrace{Cgnnn}_{E_{Q,Q,Q}}(1 + \underbrace{\sum_{Q \in \mathcal{Q}} K_C + 1 - 1}_{E_{Q,Q,Q}})$

Now, ne go shough de bibbs Syler. Gena)

Hundle Mode of Peissen Com Xum Ky siet & O up O, Poisson (2) up (1-01) 4. 9 motor dots with mo Carlans Usby de Lagla pronf(0,0,1 x) ~ P(x10,0) let 40 = # Xi = 0 $= \prod_{i=1}^{n} (\partial_{i})^{1 \times i = 0} (1 - \partial_{i}) (\partial_{2}^{x_{i}} e^{-\partial_{2}})^{1 \times i \neq 0}$ do, ho (1-0,) h-hod or Exilato e-(6-no) or $f(\theta_{1}|\vec{x},\theta_{1}) \propto \theta_{1}^{h_{0}+1-1} (1-\theta_{1})^{h_{0}-h_{0}+1-1} \propto \text{Ceta} \left(h_{0}+1, h_{0}-h_{0}+1\right)$ $f(\theta_{2}|\vec{x},\theta_{1}) \propto \theta_{2}^{\text{Extal}} x_{1} \neq 0 +1-1 e^{-(h_{0}-h_{0})\theta_{2}} \propto \text{Gamm} \left(\text{Extal}_{k_{1}\neq 0} \neq 1, h_{0}-h_{0}\right)$