Mmh 301 #/2/19 Leekb

(Kel X,62) & e- 262 / 1 e 26 & e 262 + 262 + 202 + 202 + 202 + 200 & e 202 & 202 $A^{2} = \left(\frac{a^{2}}{6^{3}} + \frac{80}{6^{3}}\right)^{2} = \frac{(6^{2})^{2}}{(6^{2})^{2}} + \frac{2x^{2}0^{2}}{6^{2}6^{3}} + \frac{80^{2}}{6^{2}}$ $A^{2} = \left(\frac{6^{2}}{6^{3}} + \frac{80}{6^{3}}\right)^{2} = \frac{26^{2} \times 26^{2}}{6^{2}0^{2}}$ $\rightarrow \propto e^{\frac{200}{20060} \cdot \frac{102}{200}} \times - \left(\frac{200}{20060}\right) \times \times 2$ C= 30 (box -1) = 50 + 40 $\frac{1}{21} = \frac{5(-\frac{1}{4})^{62}6^{6}}{-\frac{1}{2}(-\frac{1}{4})^{62}6^{6}} = \frac{1}{2}(-\frac{1}{4})^{62}6^{6} = \frac{1}{2}(-\frac{1}{4})^{62}6^{6$ $\frac{1}{24} = c(\frac{1}{24}) \left(\frac{\partial \rho}{\partial \rho} - \frac{1}{262}\right) \left(\frac{\partial \rho}{\partial \rho} - \frac{\partial \rho}{\partial \rho}\right) = \left(\frac{\partial \rho}{\partial \rho} - \frac{1}{262}\right) \left(\frac{\partial \rho}{\partial \rho} - \frac{\partial \rho}{\partial \rho}\right) = \left(\frac{\partial \rho}{\partial \rho} - \frac{1}{262}\right) \left(\frac{\partial \rho}{\partial \rho} - \frac{\partial \rho}{\partial \rho}\right) = \left(\frac{\partial \rho}{\partial \rho}\right) = \left(\frac{\partial \rho}{\partial \rho}\right) = \left(\frac{\partial \rho}{\partial \rho}$ \$\\ 6^2 6^2 \rightarrow = 8\left(\frac{1}{20.4200}\right) 6^2 6^2 = 6^2 + 6^2 Ab(02)2 = 4(262 + 260) (02) = 2(02 + (02)2) $\frac{1}{2d} = \frac{1}{2\left(\frac{1}{267} + \frac{1}{94625}\right)} = \frac{1}{62} - \frac{1}{2469} = \frac{1}{2669^2 - 6^2} = \frac{2669^2 - 6^2}{2669^3 - 6^2} =$ $= \frac{1}{6^{2}} + \frac{6^{2}}{6^{2}} = \frac{6^{2}}{6^{2}} + 6^{2}$ $\frac{c}{2A} = c\left(\frac{c}{2A}\right) = \frac{\sigma_{\phi}}{(260)}G_{\phi}^{2}\left(G_{\phi}^{2}+G^{2}\right) = \frac{\sigma_{\phi}}{(1+\frac{\sigma_{\phi}^{2}}{2})G_{\phi}^{2}}\left(G_{\phi}^{2}+G^{2}\right) = \frac{\sigma_{\phi}}{(1+\frac{\sigma_{\phi}^{2}}{2})G_{\phi}^{2}}\left(G_{\phi}^{2}+G_{\phi}^{2}\right) = \frac{\sigma_{\phi}}{(1+\frac{\sigma_{\phi}^{2}}{2})G_{\phi}^{2}}\left(G_{\phi}^{2}+G_{\phi}$ = 00 >0 P(Xx (x,0) = P(x=10,0)

he ar kone with Interning & when 62 tissurs. Non are do de apposite: Herring or when Q tismes. F: X:--1/0,63 2 M(0,63) $P(X|0,6^2) = \frac{1}{11} \frac{1}{\sqrt{200}} e^{-\frac{1}{20}(X_1-0)^2} = (200)^{-\frac{1}{12}} e^{-\frac{1}{20}S(X_1-0)^2}$ Les's ful one from $\mathcal{L}(\sigma^2, x, 0) = -\frac{1}{2} ln(\sigma^2) - \frac{1}{2} ln(\sigma^2) - \frac{1}{262} 2(x_1 - 0)^2$ $l\left(\sigma_{i}^{2},\chi_{i},0\right)=-\frac{L}{2}\frac{1}{\sigma^{2}}+\frac{1}{2(\sigma^{2})^{2}}\frac{2(\chi_{i}-0)^{2}}{\sigma^{2}}\frac{2(\sigma_{i}^{2}+\sigma_{i}^{2})^{2}}{\sigma^{2}}$ =)-4 + \(\frac{\xi_1 - \xi_2}{\xi_2} = 0 \rightarrow \frac{\zi_1}{\zi_2} = \frac{\zi_2}{\xi_1 - \xi_2}^2 make sixe? Aug. 58d detartion for 8(02 X,0) × (02) - 4/2 = 40 mer /2 $= \left(\sigma^2\right)^{-q} e^{-\frac{6}{\sigma^2}}$ Let's sy P(y) & y = = x a found we love seen! Let us try to some for the yourserson consoner = 5 4-9e-b/uda

let
$$t = \frac{b}{a} \Rightarrow a = \frac{b}{c} \Rightarrow \frac{da}{dx} = -bt^{-2} \Rightarrow da = -bt^{-2}dt$$

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7-: X, ..., X, 10, 63
$$\stackrel{iii}{\sim}$$
 NO, 62) with 8 known

 $P(048) = Inv Gamm (\alpha, \beta)$
 $\Rightarrow P(010) \propto (62)^{-1/2} e^{-\frac{1}{2} \frac{3}{62}} e^{-\frac{1}{2} \frac{3}{62}}) = (6^2)^{-\frac{1}{2} \frac{3}{62}} e^{-\frac{1}{2} \frac{3}{62}} e^{-\frac{1}{2} \frac{3}{62}}$
 $\Rightarrow P(010) \propto (62)^{-1/2} e^{-\frac{1}{2} \frac{3}{62}} e^{-\frac{1}{2} \frac{3}{62}}) = (6^2)^{-\frac{1}{2} \frac{3}{62}} e^{-\frac{1}{2} \frac{3}{62}} e^{-\frac{1}{2} \frac{3}{62}}$

= Bx V-a-1 e-B

K (62/ X,0)

Little don't really liego so no engy psalocons , rhypotran. Les's promoure de prior differents P(8): Incomm $\left(\frac{h_0}{2}, \frac{h_0 6^2}{2}\right) \propto (6^2)$ prim exp: $E(62) = \frac{n_0 66}{2} = \frac{n_0}{n_0 - 2} 60$ $=) P(6^2|X,8) = Inv6mm \left(\frac{5 \times 40}{2} n \frac{3^{\frac{1}{2}}}{2} n \frac{5^{\frac{1}{2}}}{2} \right) P_6. E_{54}.$ Panlocant Ingration: 5) Omms = 4000 no: # psaladsanson (strugth) 62 MAP = 4 62 + 4000 60 : Varince of the pseudobscrotons 62 mms = Eligum (0.5) CR 3 8 Hypothesis Veros... 2 h 2000 2 4000 Same!! Onorforme Priors = 1-4,22 6 me + 40-2 (62) D Laphre P(0218) ∝1 $P(\sigma^2|0,x) \propto P(1,\sigma^28) \propto (\sigma^2)^{-(hh+)1} - 4\frac{\sigma^2}{\sigma^2} \propto Interm \left(\frac{n-2}{2}, \frac{\sigma^2}{2}\right)$ Gry bull of n = 3 => P(0210) = Inv69mm (-1,0) ie ingragan