1800 VRB-10 (03/07/16)

ONLB = BA - # WITS - X
Hillets XI, -.. In each Betalo) Oly N Beta (Atx, Btn-b) = e Elo) + [1-e] Onle 9,256 basebell players Fit Beta o~ Beta (78.7, 224.8 E(0) = 78.7 72.7+224.8 too may Pleudo SABIL

Are you allowed to do 11? > 0 N Bed (78.7, 24.8) IMLE = 78-7

Alolx) & P(xlo) P(b) L (1-0) Exi to Pla)

G'ILM Gan't texout

B conjugate n+d+Ex;+B PMAP = n+d-1 n+d+= n+d-1 MLE: L(O; X)= n lot Zb; lullo = Zki NSB(Exitn) - Double int Ext 14X

It Italdon prior 2=0, \$=0 It Loplace prior DMAP = OMLE $(e) = E(-l'(e;x)) = E\left(\frac{n}{b^2}\right)$ $= \frac{n}{o^2} + \frac{n}{(1-o)^2} = n + \frac{1}{o^2} + \frac{1}{1+o^2}$ j(0) & The Lol (1-0) Tollow Prior & Betalo, /2) inproper Omnst + CB(b)+(1-e) Omit 6-bro

P(X) = Sp(Xle) P(0) do

Boyseion
Conditional P(xt(x)= (p(xto)P(o(x)do dim 1 " Vis known # Sailures - reucess Jupp [x] - {0,1, ...} 00(011) î.î.d P(X/0)= (1-0) Plolx of P(xlo) P(0)

proportionality = $(1-0)^{2}$ constant = $(1-0)^{2}$ $(1-0)^{2}$ & or (1-0) p/0)

& O (1-0) Exi 2-1 (1-0) 8-1 P(x) = SP(x6) Plando

(X)= SP(x6) Plando

Nes Pin Besa (x+ () o (1-0) x (0 p) (0 p) (1-0) x T(174) B(L+x, B) with Beta Nez Bin (r, d, p) Bedaneg Bin (x, rntd, Exits