(a) We have the prior PDF $f_{\rho}(\rho) = \frac{\rho^{h_{\rho}}(1-\rho)^{+_{\rho}}}{B(h_{\rho}+1)+\rho+1)}$ (1)then by the continuous on discrete form of the Bayes theorem, which states H=h' $f_{\rho}(P) \cdot P(H=h')P)$ $f_{\rho}($ demonitrator by the law oftotal probability, P(H=h')= 51 P(H=h'|a) fp(P) dq which is the part net of a Berroulli distribution and a beta distribution. Substitute such terms

P(H=h')= \(\big(\frac{Nh}{h'} \frac{h'}{h'} \frac{Qh'}{h'} \frac{Qh'}{B(h_0+1, t_0+1)} \] de

 $\frac{\sum_{k=0}^{n} \frac{p^{k} (1-p)^{k} \cdot p^{k} \cdot (1-p)^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot (1-q)^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot (1-q)^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot (1-q)^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot q^{k} \cdot (1-q)^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot q^{k} \cdot q^{k} \cdot q^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot q^{k} \cdot q^{k} \cdot q^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot q^{k}}{\sum_{k=0}^{n} \frac{q^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot q^{k}}{\sum_{k=0}^{n} \frac{q^{k}}{\sum_{k=0}^{n} \frac{q^{k} \cdot q^{k}}{\sum_{k=0}^{n} \frac{q^{k}}{\sum_{k=0}^{n} \frac{q^{k}}{$