Pick & = 5%. P= X (this true Prod := P(16) dote or more extreme (Ho is true) := lowest & where you still section . $P(h_0(x)) = P(o_0(x)) = 0$ {posterior} Och Credible region) wethout

100 It 0,6 CR => Rotain Ho Plan)

Prol: = Plois more extreme (X) $= 2 \min \{ P(0 > 0 \circ | X), P(0 < 0 \circ | X) \}$ The more symmetric, The best the approximate One-sided Hypothesis Test (Bayesian) Ho: 0 4 00 = 0.5 Ha: 0>00 if P(Holx) > a => Redoin/Accept to Eyeon likely? P(Holx) < d > Reject to Pro1= P.(Holx) P(Holx)+P(Halx)=1 why not les L = 50% . Als; Ho: 06 D, C D Ha: 06 00° Pick 2 57.

Two-sided which is don't care (2) Ho: O & [0, 1 &] (eg. 0.001) Ha=06[00+87° 86=0.5, E=0.01 Ho: 06[.49, .51] 0~ U(0,1) = 8eta(111) olka Beta (x+x, B+n-x) In R console; = Bern (55, 47) (Ded (0.025, 55, 47) 957. eR=[.442,.635] P(DE[.49,.51]) = F(0.51) - F(0.49...) Ho = 0.117 & d=57. = Retain Ho

Frequentist: $CI_{0,951} = \left[\frac{0}{0} \pm \frac{2}{2} \sqrt{\frac{0(1-0)}{n}} \right]$ =[.440,.640] Pval:=0.24 0~ U(011)=8eta (1,1) $\chi = \langle 0,0,0 \rangle$ olx ~ Beta (1,4) Prod = 2 9 (0 < 0.5 (x) Ho: 0=[0.49,0.51] P(Ho(X) = 5 Beta(114) do = 0.01 / 5%. to: 0 < 0.1 severly weighted towards tails Ha=0>0.1 P(Halx)= Spectaliny) to= .344 & 57-

Frequentist: $\delta = 0$ C. $I = [0 \pm 24, \sqrt{\frac{5(1-6)}{n}}] = [0]$ Ho: 8=00 =0.5 (M1) = Deg(0.5) NO) Ha: 0 N U (0,1) (M2) Jesterey $k = B = \frac{p(X|M_1)}{P(X|M_2)}$ P(X|0,0.5) Bayes Factor Plus or notation

(P(X|0,M_1) P(O|M_1) do

Briefo.51 $=\frac{\sum_{n=1}^{\infty} \frac{1}{p(x^{100})} \left(\frac{1}{p(x^{100})} \right) \left(\frac{1}{p(x^{100})} \right) \left(\frac{1}{p(x^{100})} \right)}{\frac{1}{p(x^{11})} = \frac{1}{p(x^{11})} = \frac$ $B = \frac{P(X|MZ)}{P(X|MZ)} = 2.66 < 1$ Tragative oxidence $\frac{12g}{8(x+1,n-x+1)} = \frac{1200}{8(42,40)} = 1.39$ B = P(x/m2) = 1.39 (Bonely worth mentaring)