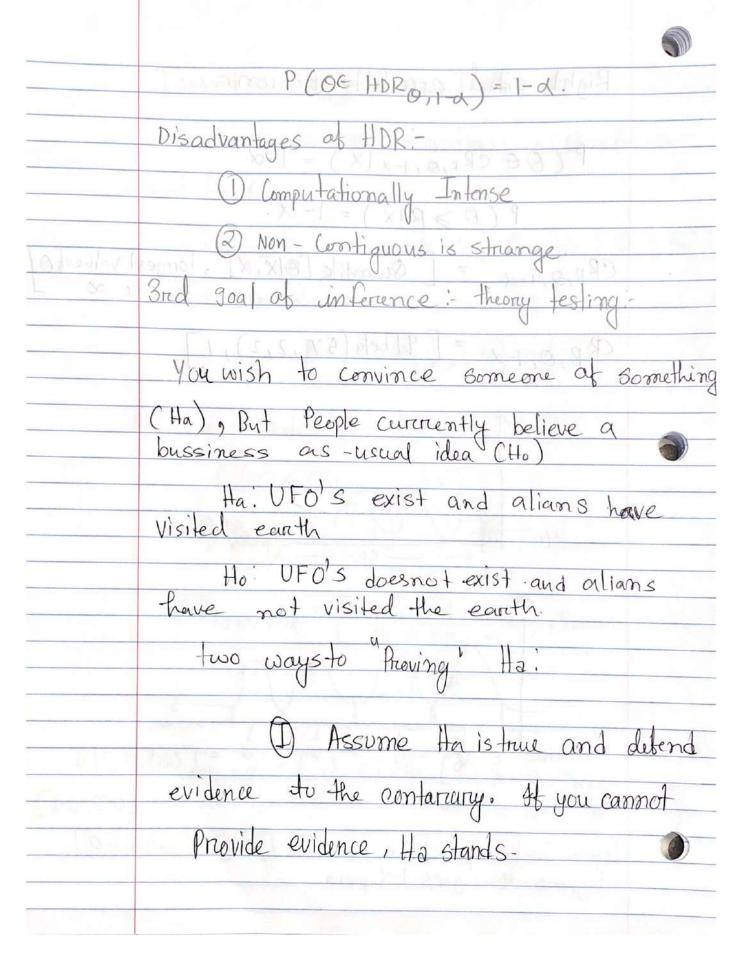
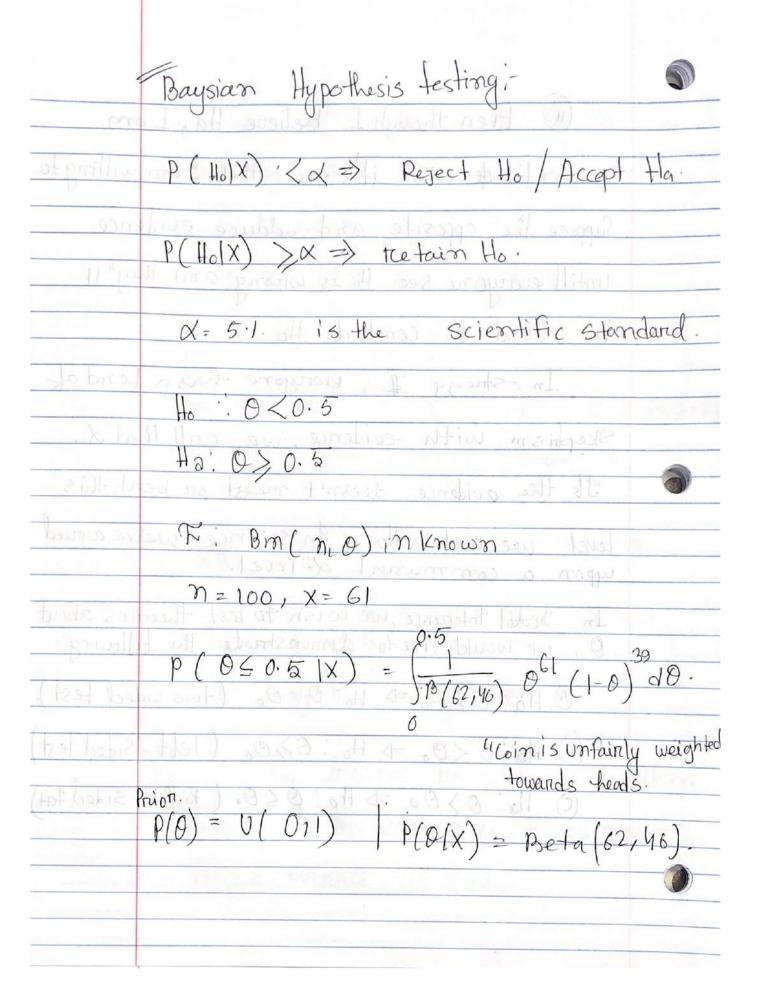


I want, CR0,05, = [9beta [2.51,2,2], 9beta 975,2,2] I want a region providing a confidence set for O. CRO,1-x:= [Quantile [OIX, 0/2], Quantile [OIX, 1-0/2] 2 sided credible region. (x P(OECRO11-X|X) = 1-X. A left sided credible region; P (O & CRL, O, 1- x X) = 1-X => P(0 & L|X) = (1-Q.) = (3) CR L, O, 1-d = Smallest Value Quantile[O[x, 1-d] Inf (CRL, O, 1-x = [0, 9befa (951, 2,2) CHMISE = Smalle = Chip 1/2

Right sided credible region! P (O E CR r, O, 1-a | X) = 1-d P(0>PIX)=1-Q. CPR,0,1-X Quantile [OIX, X], largest value of O 000 9[beta (57,2,2),1 (Ha) , But PEOPLE CULTURENTLY Delieve of bussings - as - usual idea (Ha): CR-Ut-0's doesnot austrand allans vertical visited the -HOP E U U V = [0.1,0.3] U torre High density will make the sometimes [0.5, 0.6] Region, Smallest possible DIV[0.7,08]V[0.9,1.0 region that goes I-d proba



Bruggern Hypothesis testing Even though I believe Ha, I am So confidence that it's true that I am willing to Suppose the opposite and adduce evidence untill everyone see to is wrong and they"! be found to conclude to In strengy I, everyone has a lend of Skeptism with evidence, we call that d. It the evidence doesn't meet on beat this me ratain lo . In science we've agreed a communal d-level. Indial Inference, we wish to test theories about we would like to demonstrate the following: @ Ha: 0 \$ 00 => Ho: 0 = 00 (two sided test Haio <0. = Hoio >000 (left-Sided test Ha: 0>00 => Ho: 050. (Right - Sided fest



	P(0 < 0.5(X) = P beta (0.5;62,40)
Travit	2 0·014 \ 5·1.
+	Bold does 200. Todas and 96th =
) <	Reject Ho. This Boinis unfaitely regweighted towards head * Accept 11 2 20 111
(49	head - Accept Ha. Reject Ho.
1291 185	10 (X) 25-1. P(B X) = Beta (
	Notation fore integrals of beta distribution
	P(X \le X) = F(X) = P beta(X, X, B)
	$P(X) \times 1 - F(X) = 1 - Pbeta(X, x, 13)$
-9	(3/38/1/4)
(3)	
	- 1 bela (0.25, 38, 11



		1
Question;	ai Prop of non-5-Star rides.	
	It 0> 25.1. as fine the drie	ver7.
210	BoB does 200 tides and gets 37	
2 arraga	non-5-Star. reatings, Does fire 130b?	
	Ho: 0 \le 25.1. PLO) = U(61	
inoite of inte	Ha: 0 > 25.1. P(0 X) = Beta (38,	n-x+1
	7: Bin (n,0), n known	
	$m = 200_1 X = 37.$	6
(Elexix	Pral = P(0 < 25.1. (X)	6
	$= \int_{0}^{1} (38, 164) = 0^{37} (1-0)^{163} d0$	- G
	= P/b = P bela (0.25, 38, 164)	6
	= 198 => Retain Ho. Dor	17
	fine bob.	5
		5-
		5-
		6
		(p)

Ho= 0= 00 Ho: 0 + 00 = P (0= 00 | X) = C the have a preoblem with 2 sides You declare & ex equardence" Herr you RHA = P(BF PLAS) 1 be a (0.51,62,40) - 1, betal- 49 620 F00.0 - 600 (MARTE)