Statistics & Inferencing Homework #04
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P9-3) (a) H: 4225 Hai rit25
x=28.1, u257 028.46 d20.1
7-2(13-C-28)/(8/1846)
7 2 (28:1-25)/(8.46/57) 3 2.7.72
(20.) =) 2/220.005 CBRO DES . 7412 = 2.5752
TAPIALO TITOLOGIA
(13 p-value = PL2 7 2.77) x2
- 1 - P[2. < 2.77] × 2
2 2x[1-0.9972] z 0.0056
Since D-values C 12, we reject U.
17. 3 (x -11)/(6/-1)
130 - Che US)/(16/17)
Dans = 25 ± 2.5758 (8.46/√57)
Upper xc z 27.886, Lower xc z 22.114
P9.5) (a) Ho: 421200 Ha: 421200
V9.5) (a) Ho: 421200 Ha: 4>1200
721215, u2113 62100 020·10 0020·05 30/20/05/51/20/05/05/05/05/05/05/05/05/05/05/05/05/05
772d, reject to.
(b) p-value = P[2>1.59)
= 1 D[2::50]
P < d , regert 40.
(c) 7c 2(xc-4)/(6/4m) 10 2) 1.2816 = (xc-1200)/(100/113)
Her 1212-26
P9.15) uz 11 220.05 Ho. M21160 Hi. M>1160
12 (X-4)/(SIC)
Ce Ce -
12 (1236.364-1160)/(103.512/NII) 2 2.44 See 52 103. 212
tx>t, hence reject Ho.
00.12)
19.17) uz 12 dz 0.10 Ho: 421.84 Haz M \$1.84 = 1.11
(51.8) c= 0.032 C
201 20 2. DE 12 17 (0.0035/112) = 1.6
Pro 3 2 P(+ 21/1) 2 P(+ 21/1)
p-val 2 2x P(t>1.6) 2 2x P(1.6,11) 2 60.14
fail to reject the

P9.25) Mo: p20.63 Ha: p 60.63 u2100.
X255 -> characteristic of interest. 020.01
ZX2 2. 3263 \$ 20.55 \$ 20.45 Z 2 (0-0)/(NPa)
72 (0.55-0.63) (0.5560M5)/100 = -1.61)
ZCZZ > we fail to reject.
P9.27) uz 380 ->purchased policy; always varied: 164
120:01 48 /o rereed: p20.48
Ho: 1020.48.
P = 164/380 = 0.431 8/2 20.005 24/2 2 2.5758
- 2 z (0 · 431 - 0 · 48)/ 0·48(0·51)/380
22-1.911. 6000 o foil borigatets
£ > 2012.
Men b Faul to reject the
-2.5758 2.5758
99.33) (a) Ho: 6'2020 Ha: 0'>20 d20.05, u215 52230
No. 14 2 23.6848 X2 = (n-1) 52/62
3°2 (14)(32)/20 = 22.4.
Vic Va, 14 -> fail to reject the 23.6008
(b) Ho: 62 8.5 Ha: 62 78.5 2201 42.22, 52217
202 1220.05 Jay2, 21 2 32.6706
1 2 (21)(17)/8.5 242 X2> 32 x2; n-1 -> reject Ho.
(c) Ho: 62 = 45 Ha: 6245 a20.01 4285 s24.12
72 2 (7)(1) (2244) /4 = 2 (1)
72 / 22 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(d) Ho: 6225 Ha: 62 \$ 5 020 0105 112 11 22 10
dran : 221. Z
32 (10) (1·2)/5 = 2·4
$\chi^2 \subset \chi^2_{1-\alpha/2,10}$
by reject Ho.
PAIR well seem in a see
wind the same of t
- Company of the Comp

Ho: 6220.001 ×2000) Ma: 62>0.001 \$ 32,15 2 30·5779 Ben 520.038035 5220.001447 2 = (15)(0.00|443)/0.001 0 20169 52271.6999 X2 (X2, u-1 -> Fail to reject Ho