stal π I not 1200 $\pi_1 = us2$ $\pi_2 = s23$ $\sigma_2 = 185$ The null and alternative hypothesis are $to: u_1 - u_2 = 0$ $ti: u_1 - u_2 \neq 0$.

The value of test statices is: $\frac{1}{2} = (x_1 - x_2) - (u_1 - u_2)0$ $\sqrt{5}, 2 \ln t + 5, 2 \ln 2$ $\sqrt{2} = \frac{2}{212} \frac{2}{1200} + 185 \frac{1}{800}$ $\sqrt{2} = -7.926$

2) n1 = 100

12 = 100

001 nell

16:

16:

16:

2

The

-7.826 2 billion

The computed value of the 2 falls in the left. hand region to any commonly wed x. left. hand region to any commonly wed x. and the p-value is very small. We conclude that there is a stulistically significant different that there is a stulistically significant different in average monthly changes between in average monthly changes between and Bangalos to Using Bangalos to Using

X1=308 51=84 n2 = 100 x2 = 254 s2 = 67 on neell and alternative hypothesis are Ho: 10 tu 100 100 the les ly U.-e, 10. 16: U1-42 600. H1 U.-4, >0. The value of test stabister is 2 = \(\frac{1}{5.2}\ln. + So \lno = 308 - 254 - 0 - 54 184°1100 +67°1100 = 54 Tis. 48 The value fall in the non rejection ragion of our righ-tailed test at any conventional level of significance & (2) $n_1 = 15$ $x_1 = 6598$ $S_1 = 844$ (2) $x_2 = 6870$ $S_2 = 669$ They is one tailed test.

10: 4,-4,20 U1: 4,-4,20.

deyres of freedon. = n. +n. -2 = 15+12-2= = 25

 $t = \frac{(6870 - 6598)}{(14)(844)^2 + (11)(669)^2 \left(\frac{1}{18} + \frac{1}{12}\right)}$

= 0.91

ronnejection region for any un would level of significance.

1.
$$\frac{1}{n} = \frac{1000}{100}$$
 $\frac{2c = 53}{x} = \frac{p^2}{100} = 0.83$

2) $\frac{1}{100} \cdot \frac{p}{n} - \frac{p}{n} = 0$

1. $\frac{p^2}{n} - \frac{p}{n} + \frac{p}{n} = \frac{53 + u^2}{100 + 100} = 0.48$

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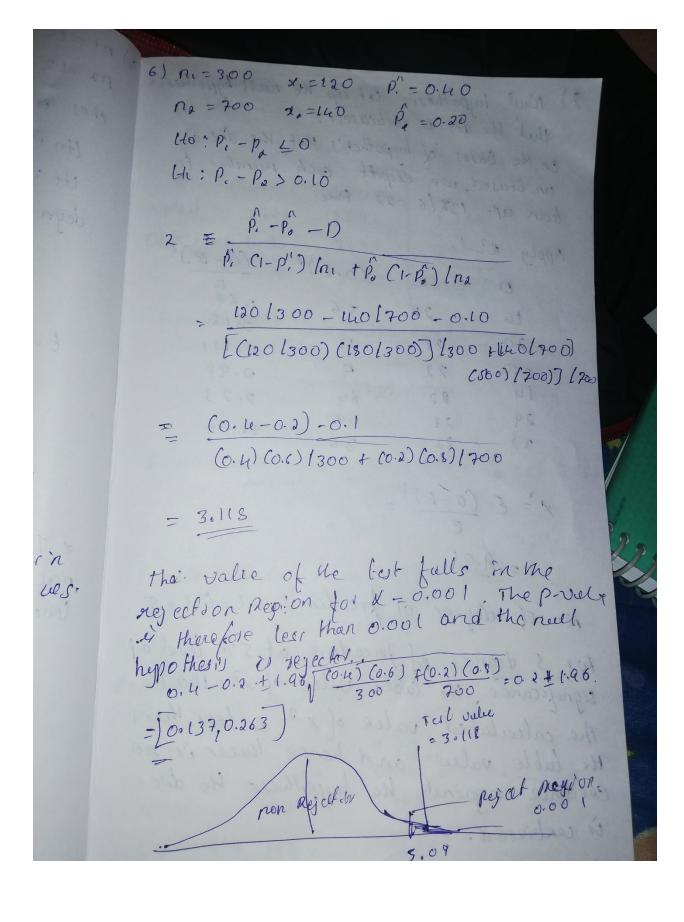
5. $\frac{p^2}{n} = 0.83$

6. $\frac{p^2}{n} = 0.83$

7. $\frac{p^2}{n} = 0.48$

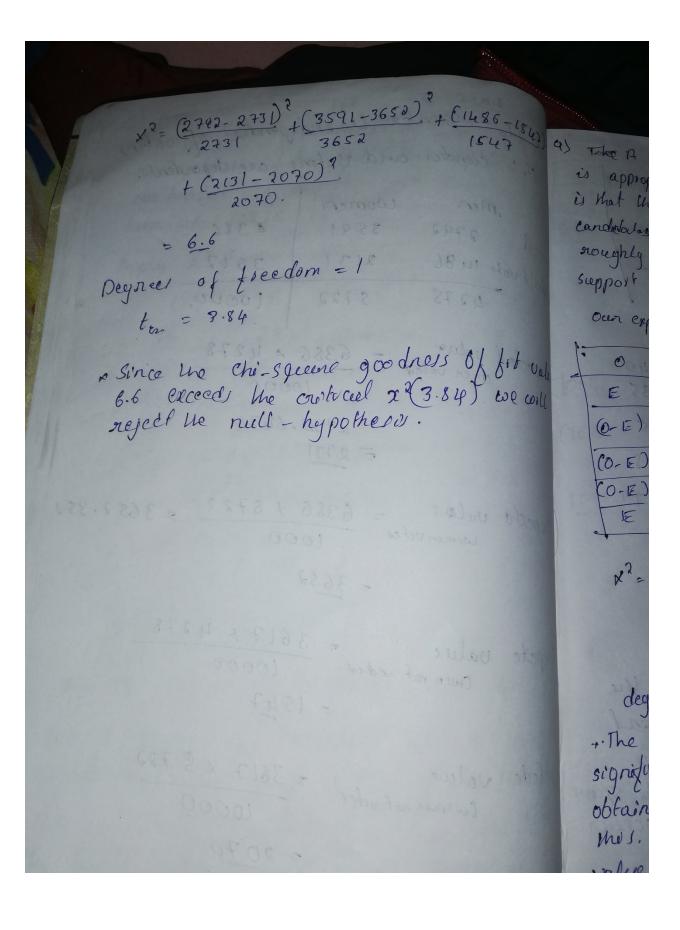
8. $\frac{p^2}{n} = 0.48$

9. $\frac{p^2}{n} =$



2) New hypothesis Set up the reel kypother that the dis is unboased.	Manager and Manage
	8) We how
on the bases of hypothesis that the die or un boased. we expect each number to	18. Lto!.
turn up. 13kl	
12-60	uoted .me
0 (O-E)	Podn't vote
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200041	Expected
25 22 9 2.91 14 22 64 2.23	13100 300
29 20	
28 22 36 1.64	
$\chi^{2} = E \frac{(o-E)^{2}}{2}$	Expecte
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= 9.01	
and the second of the second o	Expete
No of degras of freedom = n-1=6-1=5	
For 5 degree of precedom at 5% lovelo	
signaticance. The table value of x2=11.07.	
The calculated value of x 2 d less that	
He table valued and have there of no	
the table value and honce there I no coordince against he hypothess the del	Voted
is centilesed.	Didn'
	171010

POG	Red 8) We
	(ex. 8) We have
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	women
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	men voled = 6386 x 4278 L0000
	= 2730.6474
20	= 2731
	Expected value = 6386 x 5722 = 3652.351
	women voter 23652.35)
	= 3652
	Experte value = 3617 x 4278
	= 1547
1	
	Expetede value 23617 x 5722
	= 2070 men womes
1	3652
	voted 2+31
	Didn't votce 1547



(842), (4) The A Chri-Squared croodness-of-fot boot is appropriate here. The rull hypothessing candadolas. if their is so, we looked expect noughly equal number of votes to. support each. condidate. our expected frequences 100 lu = 25 per contr valer 41 coil 19 25 25 25 (O-1=) 16 -6 (O-E)? 256 36 (O-E)? 10.74 1.44 0.04 3.24 x2= E (01-E) = 10.24 + 1.444 to.04 + 3.24 = 14.96

degrees of fraction = h-l=3

The critical value of chi-squared for 0.05

significance level and 3. d.d v 7. \$2- our

significance level and 3. d.d v 7. \$2- our

obtained this square value is greater than

obtained so we considere most own obtains

thus, and so we considere that own obtains

value is unlikely to have occurred racrely

by Chare.

The state of the s	
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age of child A 13 C	60
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	0 70
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Calcerna 20 60 10	200
totals /	

For each above table, gives les : 0 19.22 20 2 28 40 20 10 40 E 12 18 30 14 21 35 14 21 (OFE) 6. 4 -10 -12 75. 6 -11 (O-E) 36 16 100 144 49 25 36 121 28 (10-E1-0.5) (O-E)2 3 0.99 3.33 10.29.2331.2.57 5.76 0.71

Cher-aguered is the scen of these. 2= 29.60 d.f= (row-1) x (colemny-1) = 2 + 7 = 4

, The crotical value of the-squeere in the table for a 0.001 sognificance loved and 4 det à 18, 46, ou obtaine valle à bugger then this is therefor we have a chi spe value action so large that it would occur by chance only, about

Conform not conkin Column tota

10-E1-0.5

1	The state of the s
28	(1) - Scerppet no support some Expedit
1 19	Conform: 18 40 5.8
1	not confirm 32 10 1e2
Sugar.	Column totals! so so 100
don	
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	29 29 21 21
	2 mg 10.8 to.8 to.8
3	(10-E1-0.8) (0.5
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-	E Maria Mari
1	x2= E COLF)?
	X - C C
	= 18,10
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l	d.f. (now-1) + bigger than the
11.4	obtained value a sign tor a 0.001
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squar	ow to car I lowel!
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0	

A Trans	13) Widow (degree)
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+	18 28 J
	0 679 103 114 63 10 20
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1.13	0:42 18 28
I W	E 62 10 13
13.01	X2 = 679 - 654) + (103 - 10.9) + (114-133)
	654 109
to. 540	+ (63-68)? + (10-11) + (20-14)?
	68
Lee	+ (42-62) + (18-10) + (28-13) +
evel	13000
60	= 30.96 wit 4 d.t.
	cooking at table of this squire distribution with (3-1) (3-1) = 2x+ -6.
925	cince 30.96 >> 13.28.
	table thet pll! Il conto dence, montrel
	so we rejet coité all conto dence. Montrel status seens la be related to job: status in his own
	status seas (-) de la

The need hypother's the: Xn Poisson butive. ü = ((32x0) + (15x0) + (9x2) +(4. Po = PCx = 0) = C (0.78)° =0.472 E0 = 0.472 x 60 = 28.32 $p_i = p(x = 1) = \frac{e^{-0.75}}{(0.78)} = 0.354$ E1=0.354 x60 = 21.24 $P_2 = P(x = 2) = \frac{C}{2!} \frac{(0.75)^2}{2!} = 0.133$ R2=0.133 x60=7.98 P3=PEX 23) = 1 - (P0 +P, +P) = 0.041 E3 = 0.041 260 = 2.46 el No. of Pet observed Expected 28.37 32 21,24, 15 10,44 201 mc 9

x2= £ (0-1 E = (32-28.32) 2 28.32

The degree of

k=3 p=1

So. 3-1-1=

if you look

distribution w

p. value of 0.0

We cancledo

evodence to su

follow Poiso

x2= E (0-E)1 3] $= \underbrace{(32-28.32)^2}_{28.32} + \underbrace{(5-21.34)^2}_{21.24} + \underbrace{(13-10.44)^2}_{10.44}$ = 2.94 The degree of predan is h-p-1 k=3 p=1so. 3-1-1=1 did. if you look 2.94 table eté-squeure distribution with of = 1, we blain a procle e of 0.05 Lp Lo.1. We canclude that there is no root evolonce to suggest the dute po not follow poison distribution.