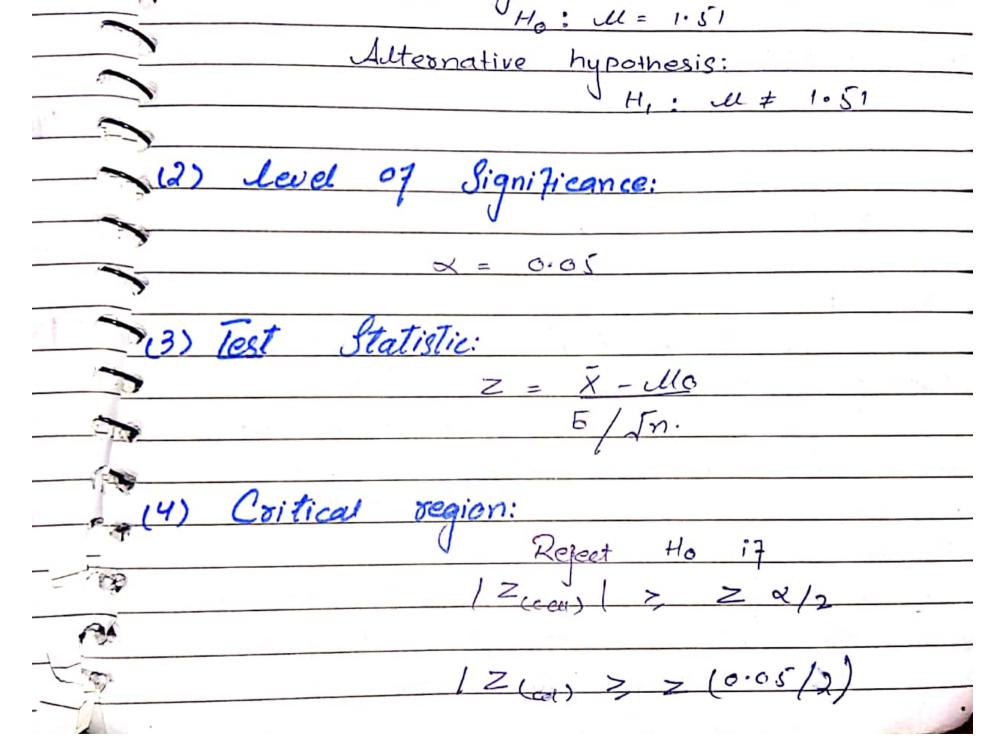
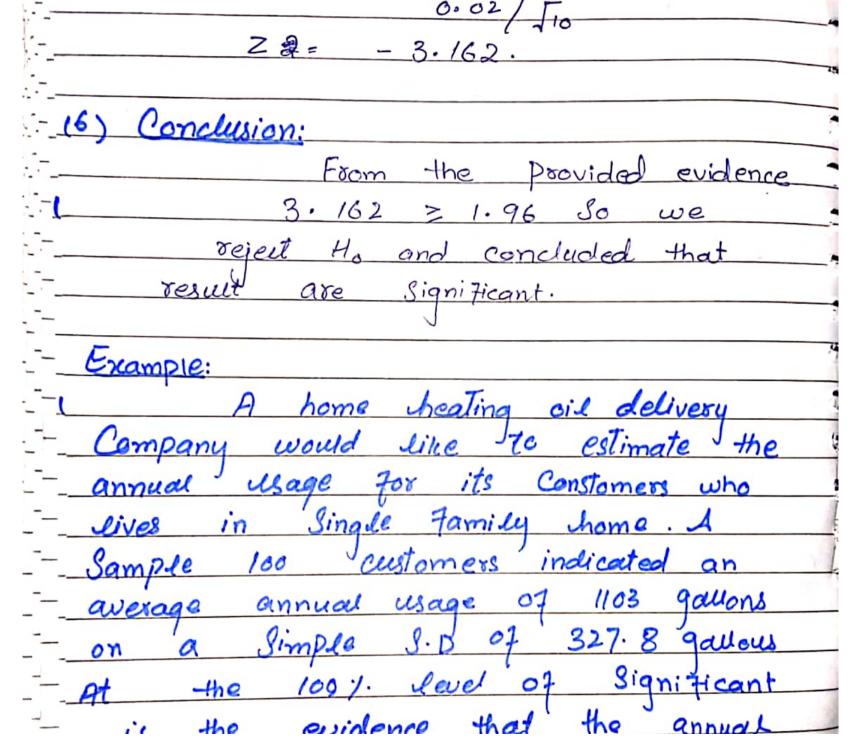
	- Sat
De	General Procedure For Testing hypethesis Li Dox Mean · E (known) =-
	AL + Procedure For Yesting house
	W M Mesting hypernesis
	Jean · E (known)=
	Ci) Formulation of Hypothesis:
	Los muiation of Hypothesis:
3	
	Tout hus 11
	null hyp Ho: M = Mo general notation atternative hyp H; M + Mo.
	- allesnative hyp H; Il + up.
4.	
	- iii) Loyal of Cinini
	ii) Level of Significance:
•, •	
4:-	= 0.05 or 5%.
-	
-[ille I de de de de
1	ill) lest Statistic:
- :	$Z = \bar{X} - \mathcal{U}o$
::-	5/In
	1 4 11

7				A	
- ills lest	Statistic:				
		$z = \bar{x} - \bar{x}$	llo	4	
		5/			7.5
(iv) Coilical	Region:			· ·	2 4
-i	4	Reject Z (call)	Ho i7		
		Z (call	> />	2/2)
		2 (()		7/2	
-w Calculati	on:	Ti Ti			
-wi) Conclusion	2:			1. 7. 1.	* x,13
-					
		_			
			12	,	
_			=		. 2

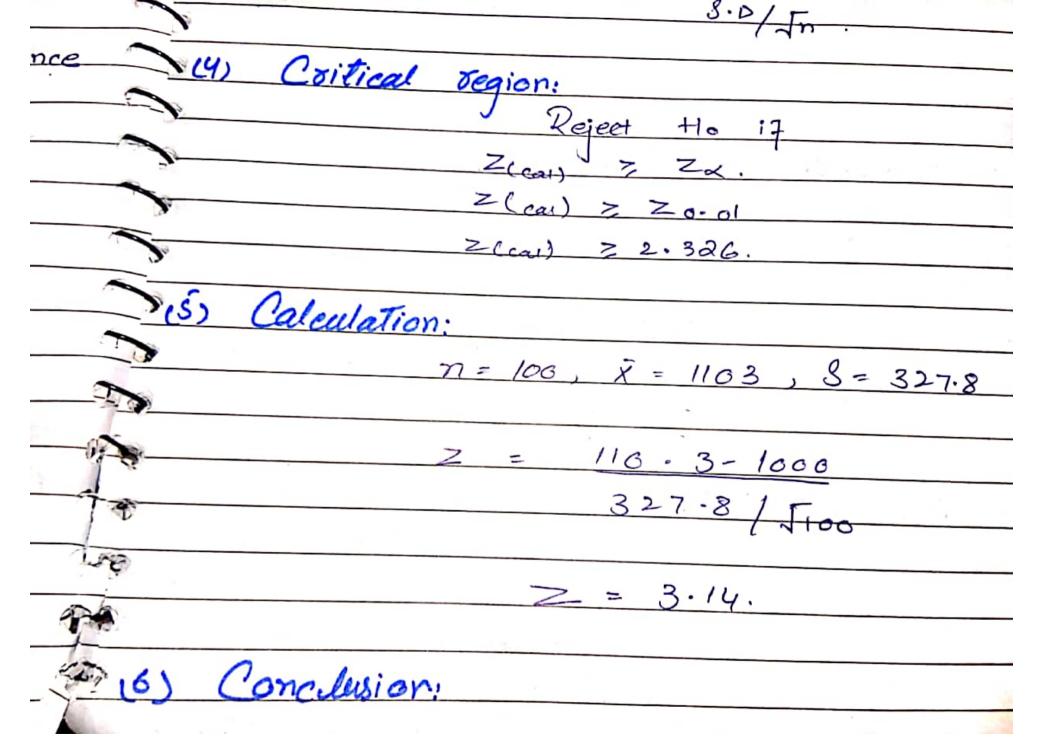
Mon Tue Wed Thu Fri Set	Date:/
is Example:	
10 devices	cell is taken voltage
gives the follow	ing result 1.52, 1.53
1.98, 1.97, 1.0	19", 1.51, 1.50, 1.45,
1.46 . The mean velta	ge of the cells when
Store volts 1.51 volts	Assuming the 1.0
- To Jamain und	ed at marker in the
reason to believe the	at the cell has
deterioted are de	0.05.
1 Formation of thy	Pothesis:-
Null hypothe	2818:-
	M = 1.51
Alternative h	
	JH,: el # 1.51



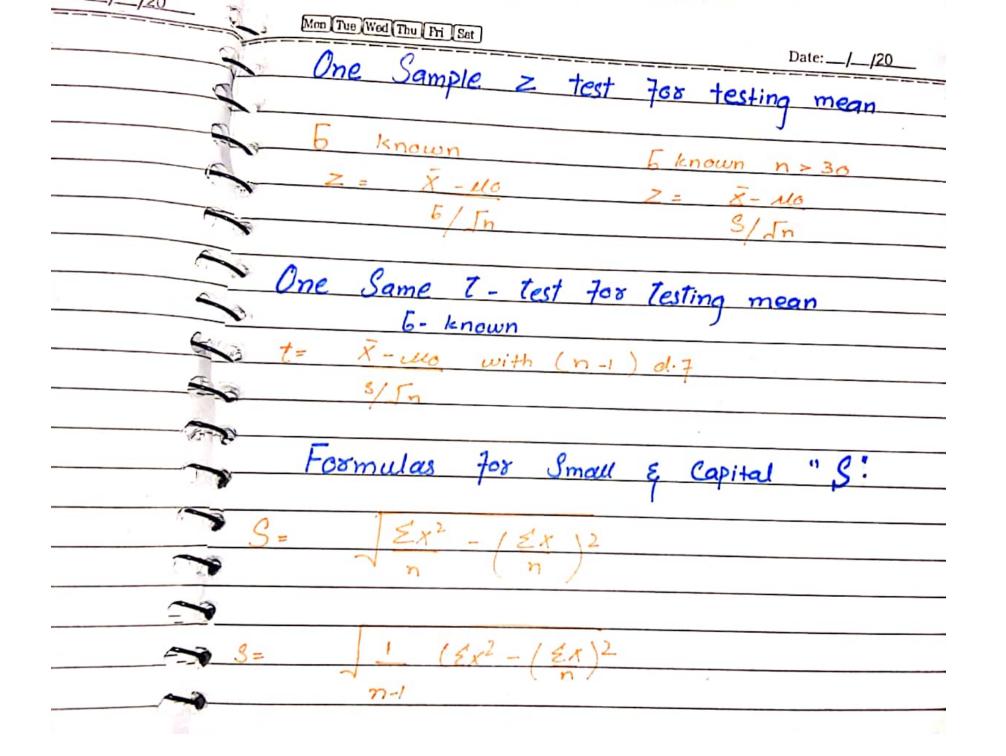
Wed Thu Fri Sat	0
Date://20	0
12 (cau) 1 > Z	1
	d
/ Z (car) / = 1.96	1
(5) Calculation:	
m = 10, 6=0.02, Mo=1.51	-
$\bar{X} = 7$	A
$\overline{X} = 2xi$	(E
· · · · · · · · · · · · · · · · · · ·	٤
$\overline{x} = 1.49$,
Z = 1.49 - 1.57	
0.02/ 510	
Z = -3.162.	l.

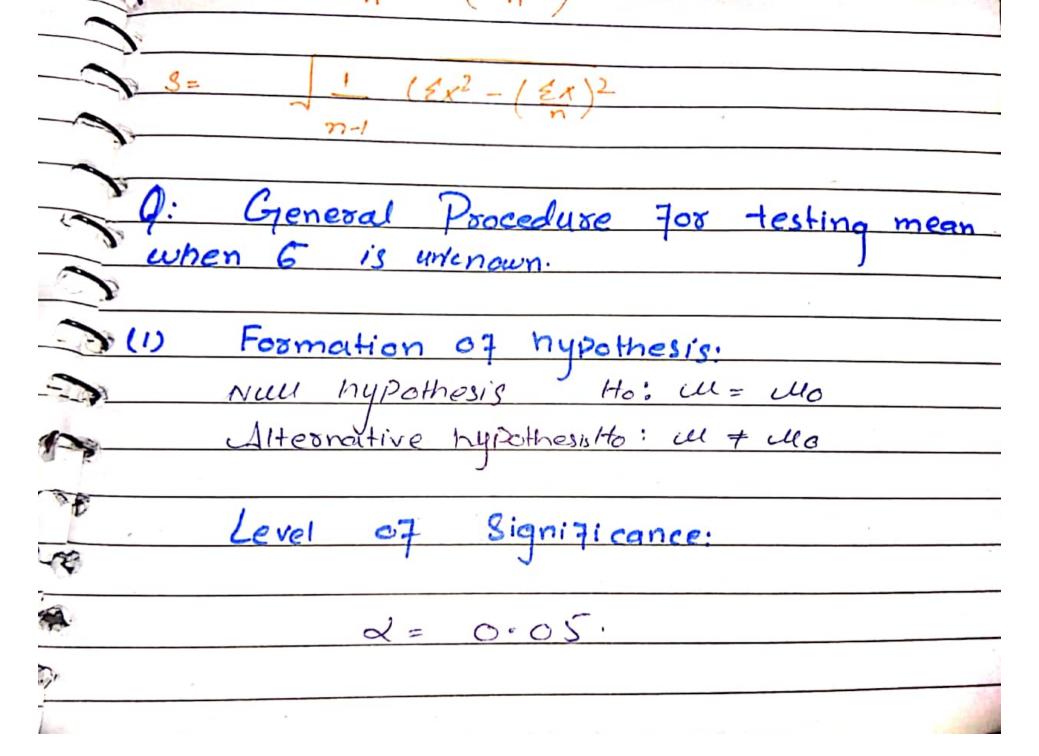


Mon Tue Wed Thu Fri Set	
	Date://20
Usage exceeds 1000 gallons	Per year?
Formation of hypothesis:	
Null: Ho: M= 100	30
Alternative: Hi. M > 1	1000.
(2) Level 07 Significance:	<u> </u>
$\alpha = 0.01$	
13) Test Statistic:	
7 - X - 1	<i>u</i>
8.0/	-
	n ·

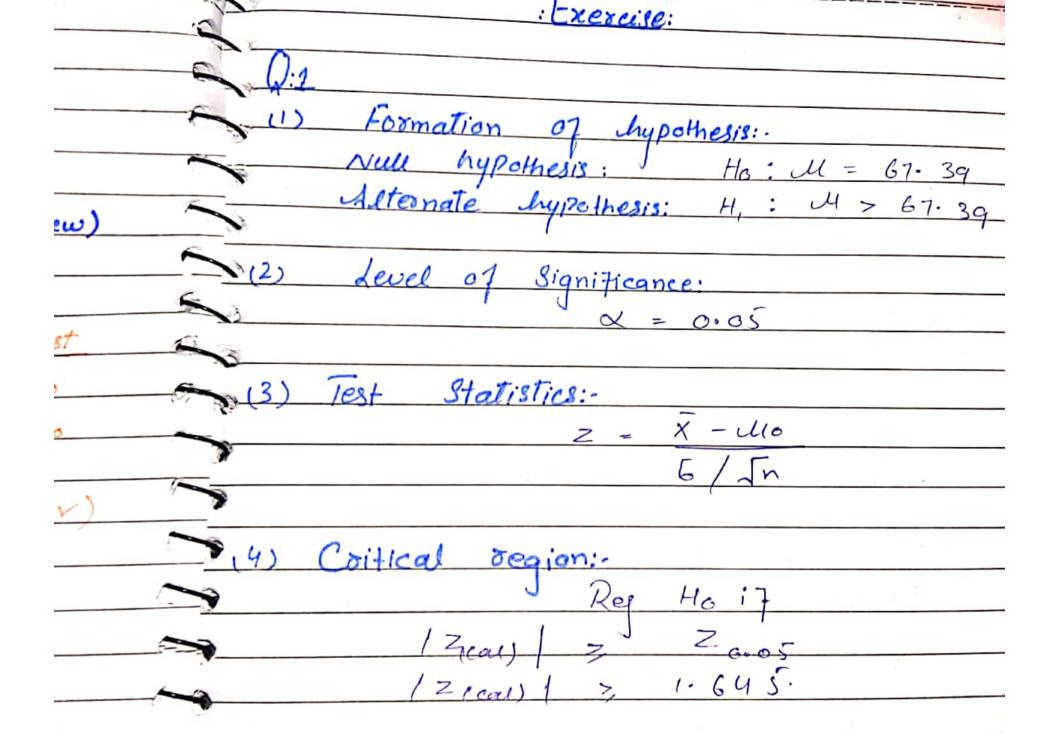


Mon Tue Wed Thu Fri Sat the provided evidence. 1-rom 3.14 > 2.326 so we reject He and Concluded that results are significant.





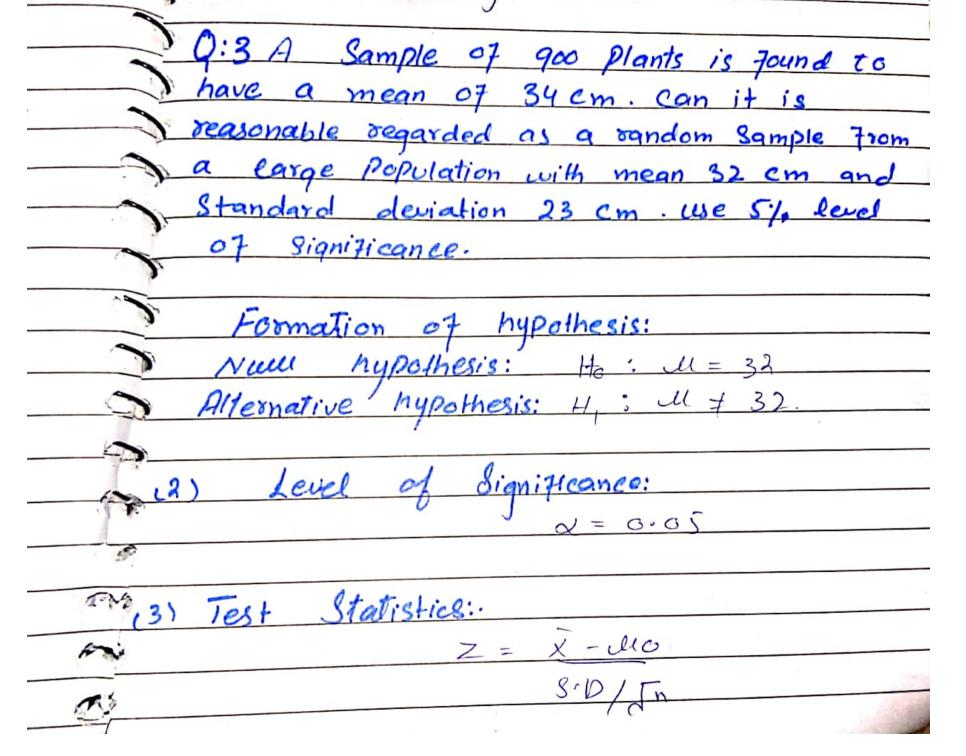
Test Statistic:	with $V=n-1$ olf
S/In	
Coitical region:	
	t 2 (r) = (new)
Calculation:	
Conclusion:	one tail test
	Ho: 11 = 110
	H1: W = 110
	$t_{\text{real}} \leq t_{\alpha}(v)$



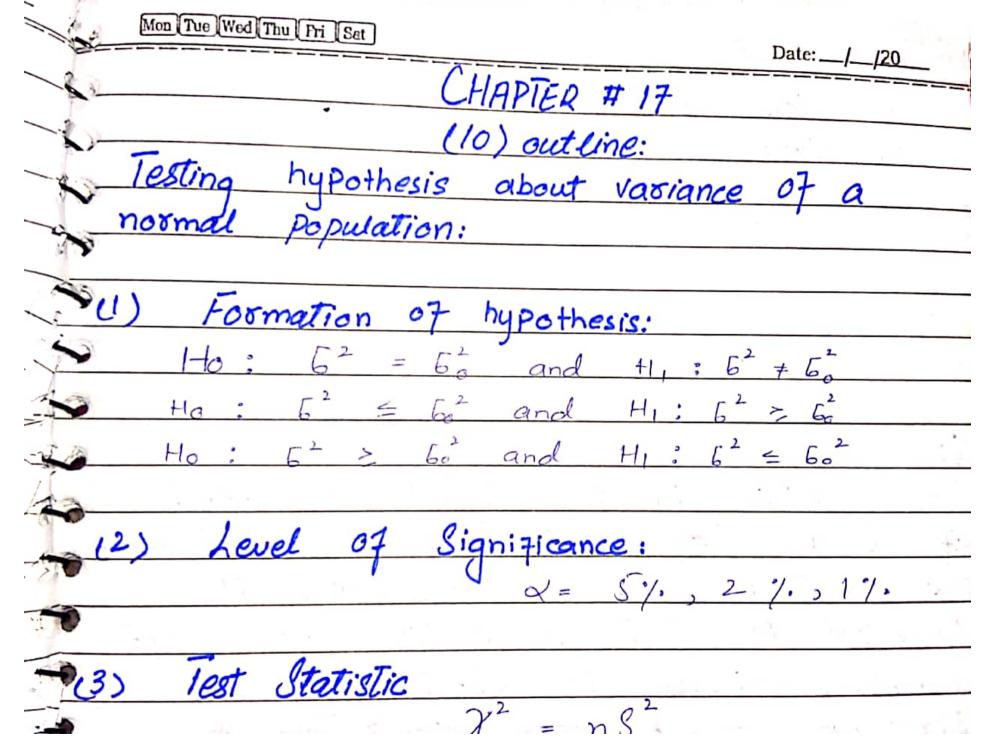
Reg Hoit
Rej Ho i7 Zear) Z 2005 Zear) Z 1.645.
(Zecal) 1 > 1.645.
(5) Calculation:
Data:
Mo = 67.39, 6 = 1.30
$ullo = 67.39, 6 = 1.30$ $n = 400, \hat{x} = 67.47$
Z= 67.47 - 67.39
1-30/ 1400
Z = 1.23

we accept the and results gre insignificant. 2:2 A Sample of 100 observation from a Population with 6=2 inches has $\bar{X}=66.5$ inches. Test the new hypothesis Ho: u=67against the acternative hypothesis 41: 4 67 1% level of hype. use Lormation hypothesis: Nuu Hypothesis:

	Null Hypothesis: H: U=67
	deternate hypothesis: 14, : 14 + 67
	(2) Level of Significance:
—	X = 0.01
—	
_ <u>`</u> .	-131 71 04-
-	(3) Test Statistics:
·	
	$Z = \overline{X} - llo$
`	5 / Jn
, .T.	b / dn
	19) Coifical region:
	Reject Ho i7
	12 (at) 7 20.01
	17 1 - 2-575
	(cell) (7



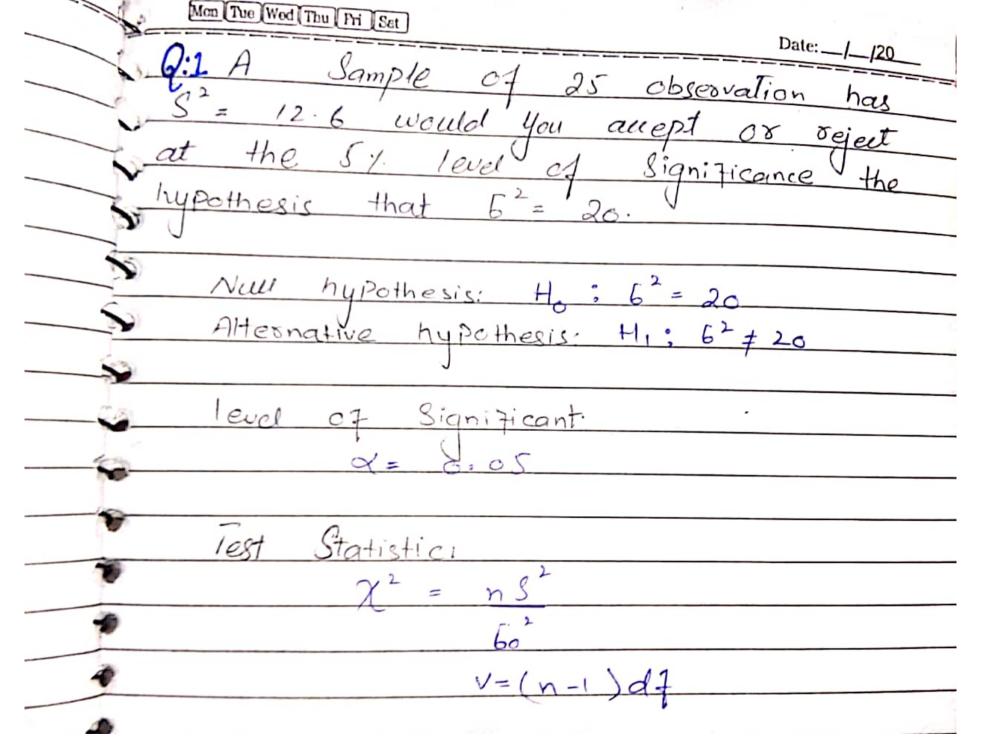
rit Sat	Date: _/_/20_
(4) Critical region:	
Reject Ho 17:	
[2con) / = 20.05	
12 (au) 1 = 1.645.	
6) Calculation.	
Data:	
$n = 900, \bar{x} = 34$	8-15=23
÷	
= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$	
23/5900	-
Z = 2.61	

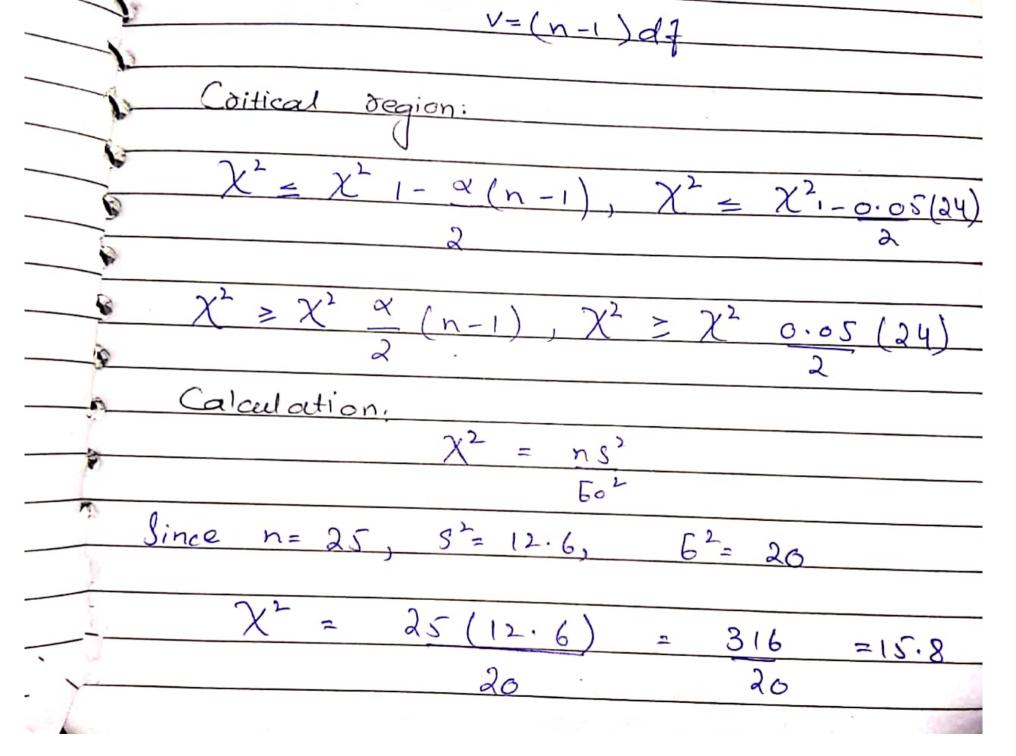


Calculation: Conclusion:

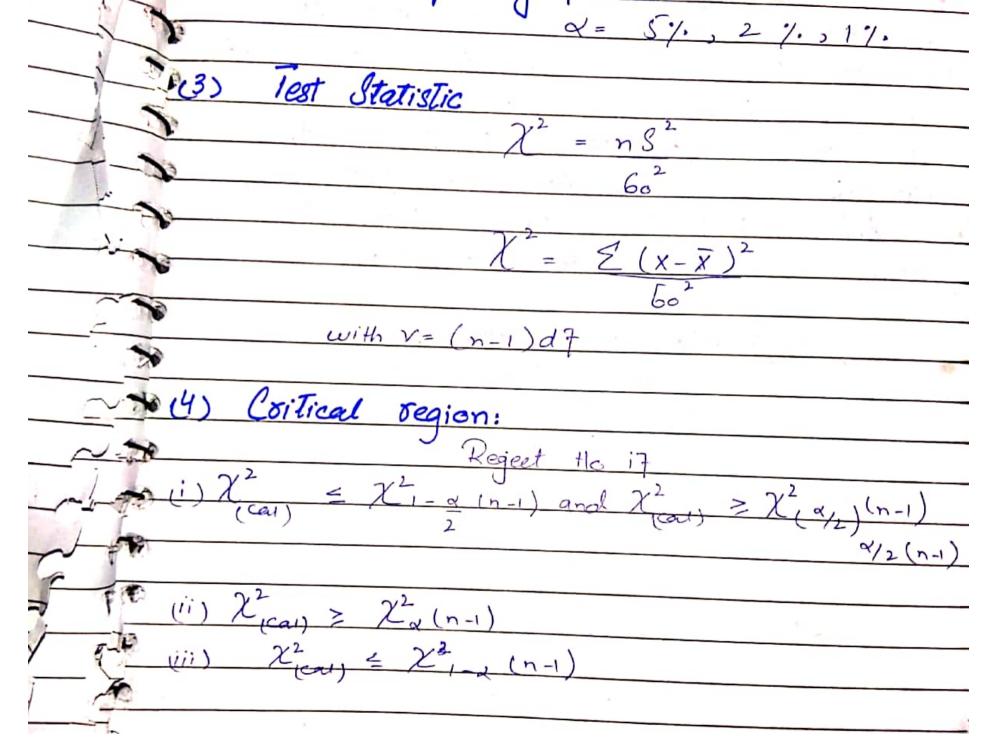
$$\frac{S^2}{S} \leq x^2 - \left(\frac{2x}{n}\right)^2$$

$$S = \frac{2x^2}{n} - \left(\frac{2x}{n}\right)^2$$





120 Date: ___ Mon Tue Wed Thu Fri Sat Carclusion From concluded that the result in significant. Paots Sample



SOLE 12 may 1 = 1.645. 6) Calculation. Data: 900 , X = 34 8-12=23 34-32 2 = 2.61 Conclusion: Provided evidence From 2.61 = 1.645, 80 we reject Ho. the result Signi Ficant. are

Mon Tue Wed Thu Fri Set Calculation: Date: _ Data: 6=2 66.5 100 2 = 100 Conclusion: Providing the insignificant. result are 900 Plants is found to