	Hypothesis Testing
89.	Given Ho: PAZ20 Na: RZ20
	n; so M=19.4 0=2
	(a) 2 = X - 91
	2 = 19.4 - 20 $0 = 0.2828$
	0.2828 $2 = -2.12$
	1. P(27-2.12) = 0.0170
)	(b) P-Value =?
	P(27-2.12) 20.0170
	O Given x = 0.05 To accept the resting p-value Should be p-value < c
	50, the Testing is Rejected.
	@ Reject 116 it P-Valve < X, so Resocted

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Given ho: 4 525 (b) Ma : le \$ >25 n 2 no X = 26, h 0 26 (a) $2 = \overline{X} - 4 - 26r4 - 25$ 2 = 1.4957 (b) P-Value P(271.48) = 1-0.9300 = 0.0694 (c) Given X = 0.01 p-value GX Accepted. P-Value > 0.01 So donot riject ho a) Reject no if Prvalue = x but prvalue > 0.01 so do not Reject no.

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airen Mo: 4=15 Ma: lt \$15

 $n \ge 50$ $\overline{\chi} = 14.15$ $\sigma = 3$ $\sigma = 3/\sqrt{50}$ $\sigma = 3/\sqrt{50}$ $\sigma = 3/\sqrt{50}$

(a) 2 = 7 - pe = 14.15 - 15 = -2 0.4243

6) P-valve P(2>,-2)

For 4 = 15 dosbie p-valve 2 P(27-2) = 2(0.0228) P-Valve = 0.0456

a) Ac P-V-lue CX U- 12 Resect.

@ As p-value ex, no is Réjected.



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(12) Given No : le 7,80 Na : RC 680 n2100 0212 X = 0001 Q 7 = 78,5 0 x = 1.2 2 = X -le = 785 - 8° = 1-25/1 P-Value = P (27-1-25) = 0,1056 Plene P-Value > 0,01 So not resected. (b) x = 7 2 = x - 24 - 77 - 80 - - 25 P-Value = P(27, -2-5) = 0.0062 p-value = 0.01 / 50 No is Resected Q X = 75.5 2 = 75.5 -80 = -3.75 P-Volve = P(ZZ-3-75) = 0 No Rejected. $0) = 81 \quad 2 = 81 - 80 = 0.83$ P-Value = P(2 70.83) = 0.7967/1 No Not Rejected

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No = 4 5 30 (13) Ma = 22 > 50 n=60 0=8,0=1,0328 X = 0,05 Q x 752-5 2 2 x - le 2 52-5-50 P-Value: P(27,2,42) = 1-0,9922 2 0,0078 P-Valve = 0:05, So, No Rejected. (b) 5 = 51 2251-50 = 0.9682 2 = 8.97 2 = 0.97 $p-v_{q}|ve: p(270.97) = 1-0.8340$ $p-v_{q}|v=0.1660$ P-Val Ve 20.05, 50, Ho B Not Rejected (c) 9 = 51.8 2= 51.8 -50 = 1.7428 P-Value: P(22/1.74)=1-0,9591=0,0409 P-Value SX So, no is Rejected.

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Given ho : 22 22 Ma = 24 22 n275, 0 210 Q = 0,01 0 7 = 1.1547 (a) X = 23 2 = 23 - 22 = 0.87// for 40 = 22 p-value = 2 p(2 7,0.89)= = 2 1(0,1922) = 0,3844 P-valve 2000 50 mo is not Rejected. (b) x = 25.1 2525.1-22 = 2-68/ P-value = 2 P(Z > 2-62) = 2(0.0037) p-value Co.01 so no B Rejected. (c) 5/2 20 22 20-22 5 -1.73 P-Valve = 2 p (2 7/1-73) = 2 (0.0412) P-valve 70.01 So no is not Rejected.

