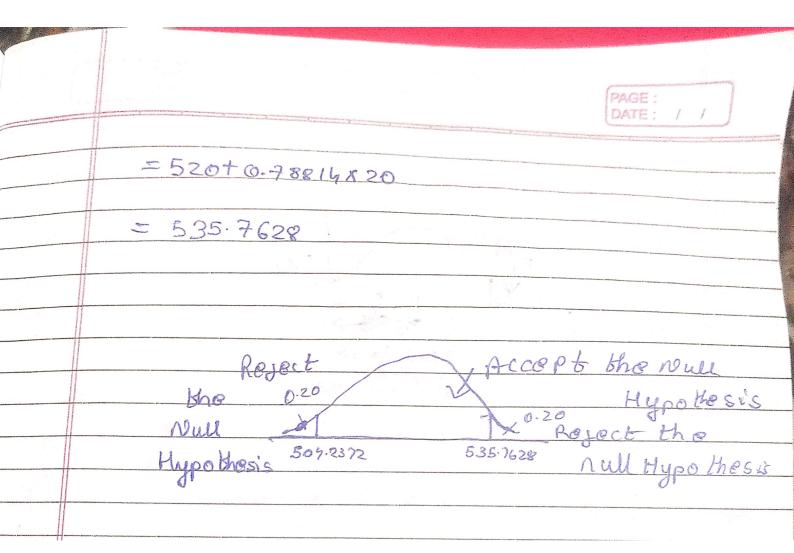


Politica and the second	167618	FAGE: 1 J
Que 2)	In a quant test of the CAT the population standard de is known to be loo. At sam 26 tests Laken has a me Construct an 80% CI the mean  T = 100, n = 28, \(\infty = 620\) Point Estimate + Margin	ple of san of 520. about
	Det Zy/2 5	CI = 807. 21-0.80 = 0.20
	$= 520 - 0.78814 \times 100$ $= 520 - 0.78814 \times 100$ $= 520 - 0.78814 \times 100$	72 = 30.20 = 0.10 2 2 2-0.10 1-6.20 = 0.8 750008 of 0.8
	= 520-0.79814N 20 = 504.2372	⇒ 0.78814 ————————————————————————————————————
	Higher Fence = \$\frac{1}{2} \frac{1}{2} \f	000



Ques 3: A car believes that the persentage of citizen in city ABC that owns a vehicle 1's 60% or less: A sales manager a hypothesis dis agrees with this. He conducted a hypothesis dis agrees with this. He conducted and found testing surveying 250 residents and found that 170 residents responded yes to that 170 residents are perpended yes to coning a vehicle-

(a) State the null and altronate hypothesis

(b) At a lor. Significant lever, is those enough

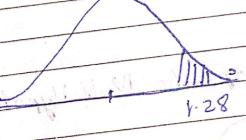
Evidence to support the idea that we had

owner in ABC city is 60% ox 1055

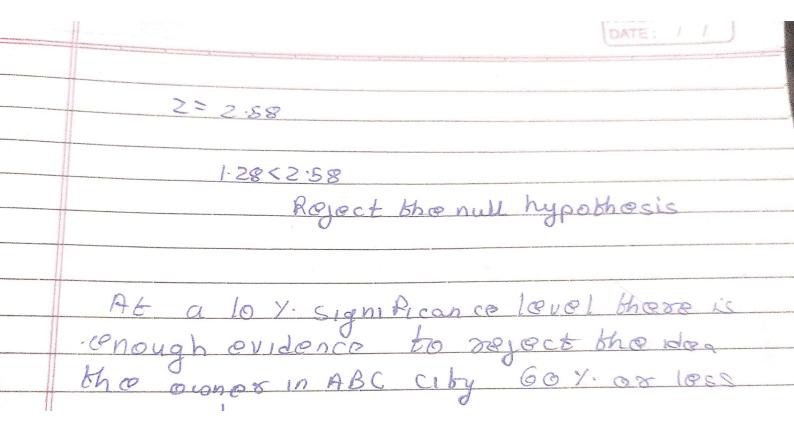
7 H<sub>0</sub>: p ≤ 0.60 H<sub>1</sub>: p > 0.60

N=250 X=170 2=0.16 C=0.90

 $\frac{0.000}{0.000} = 0.68$   $\frac{0.000}{0.40}$ 



Z= p-po = 0.68-0.60 - 10.60 - 10.40





Questi) What is the value of the 99
Percentile?

2,2,3,4,6,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12]

Value = <u>Percentile</u> x (n+1)

 $\frac{99 \times (21)}{100}$ 

= 20.79 index

Value = 12

