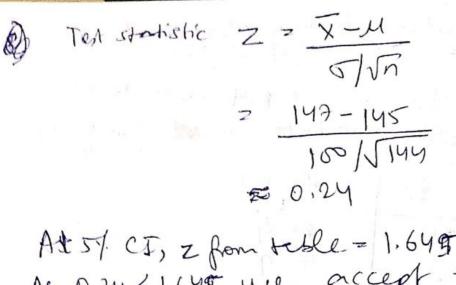
Hypothesis testing assignment
ga) the Differences are pot due to chance. and neither distributor is not giving less.
(8) (8)
70 72 BB 9
69 72
68 72
71 72
69 72
71 / 72 - 0 - 41/72 20,569
At ST. CI, X, 2 12.59 Now as 0.569 (12.57)
me will accept to I conclude
differences de not occur by chance or
$\sim \sim $
Null numbheni will not be rejected.
Null nypotheris will not be rejected. at any confidence level.
8) 11-145, 0 5 = 100 , x=147, n=144
Behelder a random pample,
the facting declaringue
H! W 7145 18 25 m fam fam
$\overline{X} \sim N \left(M, \frac{\sigma}{N} \right)$



At 57 CI, z for tell = 1.649 As 0.24< 1.645, we accept to and conclude that mean no. of podo is 145 and not increasing statis bignificantly

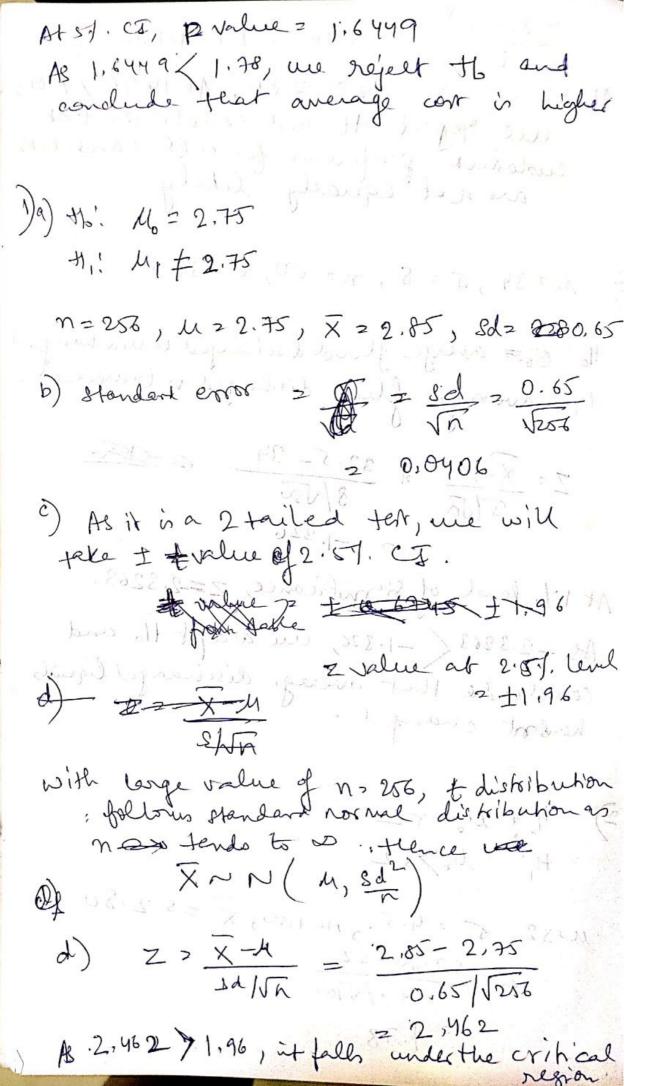
X= 147, M= 145, 0= 20, n= 200 th. MB > 145 M1: 47145

Z2 X-4 2 147-145 5/50 20/5200

At 57. CI, p-value = 1.645. As 1.414 (1.645, Our accept to and conclude that mean height is 145 for 7th graden over the

the = 1 x100 = 25 ic, all candidates are Equally likely 20-E) Oi 25 256/25 25 36/26 25 1/25

2 (0i-Ei) = 14.96 is test statistic X3 # ST. CJ, X3 = deept 7.815, As 14.96 77.815 we reject to and conclude that customers preference for all condidates are not equally likely. M=34,0=8, n=50, x=32.5. 16' des overge fluid discharged-is unchanged Hi. average fluid discharged is lowered. Z= X-M = 32.5-34 Q-0006 2 -1. 326 + C and ist (At 11. level of Significance, Z=-2.3263. As -2.3263 < -1.326, we accept the and conclude that average discharged liquids howard changed. hedistrib & JUS-11 & rules port Hick 2) Ho = 102 52 man have all who will H; Mo752 M752, 5 24,5., m 150, X =52,80 Z= 52.80-52 4.5/VIO 12 1.78 Copy of the Copy of th



une reject to and conclude that were ge GPA has changed from 2.75 from lot year. 6 = 0.53 # : 1,-12 €0 < 0.10 H: P1-P2 Ja10 P2 0.20 $z = (\hat{p}_1 - \hat{p}_2) - D$ P(1-P2) PR XIXX $\frac{0.26\times0.74}{300} + \frac{0.26\times0.74}{700}$ =(0.53-0.20)-0.10 $\sqrt{\frac{6.53\times0.47}{300} + \frac{0.20\times0.80}{200}}$ = 4,068 Critical point Z 5%. = 253263 1.6449 AS 1,6449 > 7.068, we reject to and Conclude that difference in population proportion is greater than 10%, when sweepstates are on