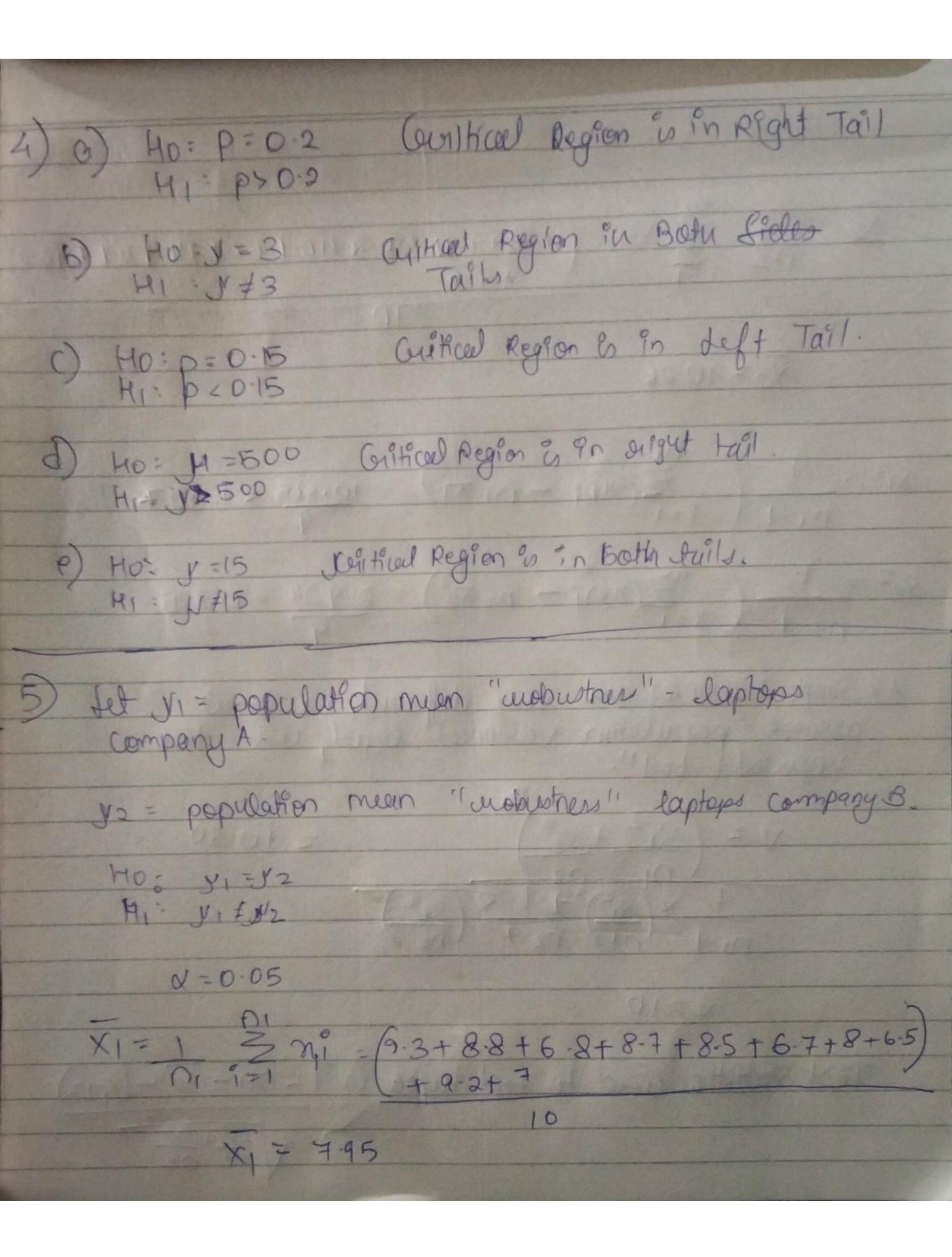
Tutavial 5 No: P= 0.7 HI: P 70.7 Level of Significana = x = 0.10 Test Stat: Binanfel val V with p=0.7 n=15 X=8 and Apo= 15x0.7= 10.5 :. $p = 2P \left(\frac{1}{2} = 8 \cosh \exp p = 0.7 \right)$ = $2 \left(\frac{2}{2} b \left(ni, 15, 0.7 \right) \right)$ = 2 x 0.1311 [Via Benomial = 0.2622 | Aurob Table / - : \$ >0.1ie. P> x There is no need to agreet NULL try potresses Mo. Josephicient aucuson to choubt builders claim. Ho = P=0.6 Cuiven = N=70, n=100, p=06 Hi : P70.6 Z = 9-nPo = 70-100x0-6 - 2.04 NUX box do 100 x 0. 64 0. 4 = P (Z72.04) =0.0207 (Via Table) Shu p < 1 rujed the Ho & conducte new dering is Superion.

3) Let pi be due purposition of surrounding anea alles deerts PI = 130 = 0-6 P2 = 240 = 0.48, PP PP = 120+240 - 0.514 d=5% = 0.05 hypomusis: Ho: PI <= P2 H1: P1>P2 1 (1-1) (1-1/2) (0.514) (1-0.514) (1+1) (500 500) -. Z = 2.869 P(Z72.869) = 0.0044 Since PLX rue need to degred ho and Conclude that purposed of numbril vaters fevering the purposed of higher than suspending auter vaters



 $X_2 = 1$ $= X_{2i} - (11.98+9.91+10.2+10.1+2.7+11+(1.1+10.2)$ = 12 = 12 = 12 = 12= X2=10.56 $=\frac{1}{2}(200) - 100$ = 10.865 = 1.207 $\frac{1}{2}(n_2)i - n_2 \overline{n_2}$ As sample voulances our very different, we cannot assume population veriances equal, use the "unpooled 6-test". · V 210 Test stutistic word to test hype is T= n1-n2

which under rull hypothesis fellows appuloximentely of dest with with v=10 deques of ferredom. Value of T = 7.95 - 10.26 = -5.90

Vilo + 0.325 As the text is two-sided, the value of test is doubled and under density curve of t-distribution with (V=10) eight of the absolute value of tests. 1+ = |-5.9| = 5.9 P-Value = 2P(T>/1H) = 2P (T>, 5.9) to 0.0005 (10) = 4.587 and since |t|=59 is even guester than P(T75.9) < 0.0005 80 produce of product of superiors so per a super ruly hypophesis we conclude that mean' dephastness' of the dephase se not same feel bathe companies.