STAT 3093 ASSIGNMENT # 7 Q1. E. 24, py 506 CT = x-y + +x12, x | 5,2 + 522  $V = \left(\frac{51^2}{m} + \frac{52^2}{n}\right)^2 = \left(\frac{5.5^2}{78} + \frac{7.8^2}{31}\right)^2 = 53.95$  $(s_1^2/m)^2$ ,  $(s_2^2/n)^2$  (3.5%2)  $(7.27/31)^2$  m-1 n-1 2e-1 31-1round down -> v=53 x = \$\phi\_1 \quad + \pm/12, \pm = 1.67 C1 = 91,5 - 88,3 ± 1.67 5.52 + 7.821 = (0.284, 6.12) For a 90% contidence Interval, it suggests a difference. For 95% CI, x= 9.05, + 2/2, v= 7.91 CI = (-0.299, 6.70) no difference is suggested at CI level of 95%.