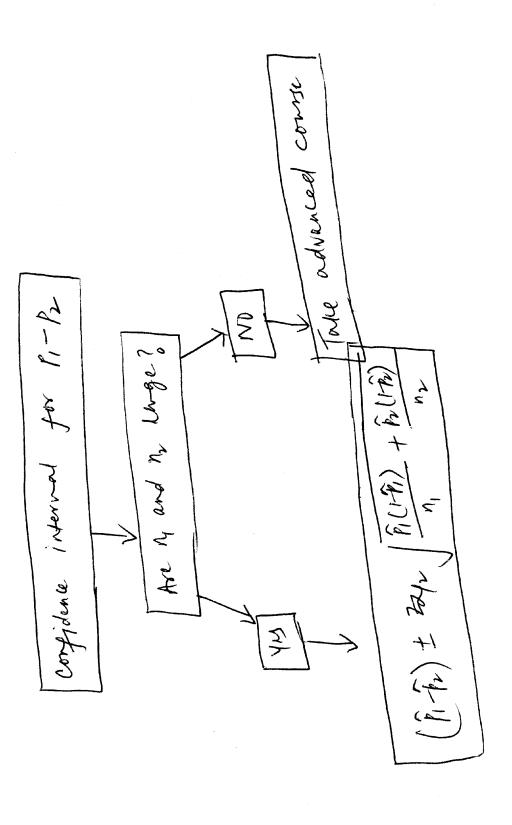
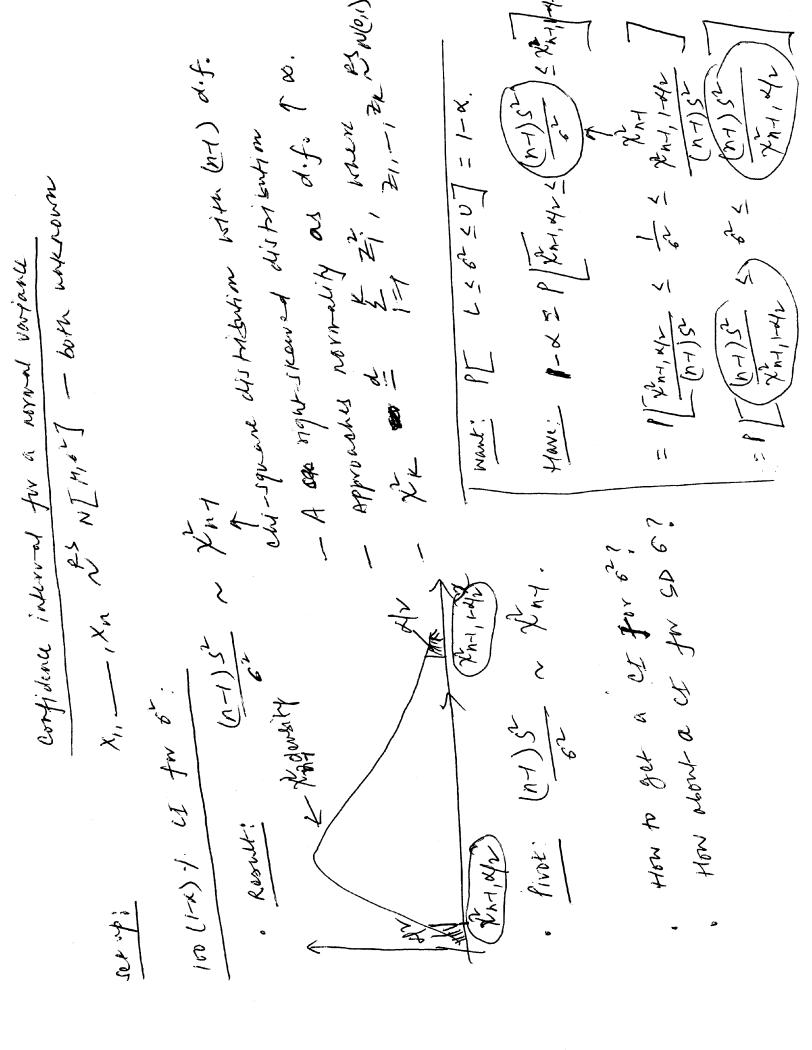
Take odvanced (1) Paired samples: Apply one-sample procedures to the differences. I Are Mand Az Lange? ION 124 1 18 Mar 7 ( 1-X) saturation of my | (xx) | xardy Himmer 0 Z confidence interval for 4,-12, population normal Recap. INO BESUMPH (XX) + 62,942 (x-y) + try, n, -2, 0/2 5/1 (2) Endyendent samples:



.



(2-1) 52 X2n-1, 12/2 12/1/2/ 12/1/2/ => 100 (1-4)-1. CT for 02;

Confidence interval for ratio of two hormal Variances

11-14m & N[hy, 67] X"-- Xn, PS N[MX, FX]

(00 (1x) 1. cf for 6x/6%:

1-27/6/x) ~ (x3/x2/1-1/n) / (x3/x2/1-1/n) / (x3/x2/1-1/n)

pesul:

F-distribution with (M,-1) and (M,-1).

· If F~ F21, 12 then I ~ F22, 21

x9 x5 (1-4) = x9/x5 (1-44)

x9 x5 (1-4) = x9/x5 (1-44)

i than to get a ct for of the ox/th ?

x5 (1-10) x5 x9 F\* (127) 54 x (1-14) PLf\* < (n,1) 5x . 6x < f2] to/xo at 4 Falling & fr FA, Mr. 1, 1-4/2 1 fx (n, +) sy 2 x x (n, +) sx 2 x (1-1) 22 x x x 1) 24 x Fri-1, n2-1 dusity • \

1-x= P[ g(v) 2 g(v) 2 g(v) 1 [(n) & 5 (a) & 00 ] = 8-1 M. 4 B. B. F. B Suppose the Me have a cet for B monotonically of monotonically b sylves & guppose &

(solution) 95/1.4: 0. 1-4= 0.95 #11  $n=30, S^2=25$ Using the fromta dirived entire: the CI is. [29)(25) (29)(2  $= \frac{(29)(75)}{45.72} \frac{(29)(25)}{16.05}$ 

Homework 6

#2. T Paired data; work with diff. (4th-bytone) ): (Mo = Mayer - Morfore) assumption that D ± (t7,0.975) SA t7,004 St(0.975,7) = 2.364. = -6.75 ± d.364 10.067 150 ASM · [-18.17, 1.67]

95.1. CF: 1/2 - 1/2 7 Tho-parent \_ Under the random sample assumption;  $\hat{p}_1 - \hat{h} + \frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_1(1-\hat{p}_1)}{n_2}$ n = 74 and get the rushing #5.7 951. CI for Manall - Msis. (xsmall - xbig) t to, 1-42 \square \frac{5x}{h\_1} + \frac{5x}{h\_2} > Need normality assumption.

tope Cook at side-by-side box plot.
and see if equal variance
assumption is reasonable (X-Y) ± t?,42 /()