MA331 Midterm Exam 4/25/20 I please my horse that I have abided by the store Honor System sample ite: 20 undergraduate Organica pe 3 5.58 510 dev. 0.59 control server size: 20 undergraduates mean : 5.08 std dev. 1.62 sample size: 22 undergradue hel mean : 4.89 std. dev : 0.57 2. Ho: 0, =02 F = logger = 0.5935 2 = 1.0734 HA: 0, 7 02 d.o.f. = F(20-1, 22-1) = F(19,21) I wand table & to check the degrees of freedom and see the prolue: 0.8613, which is very large We fail to reject the to and accept they have normal population variance.  $\xi = \frac{7. - 72}{\sqrt{\frac{52}{h_1} + \frac{52}{h_2}}} = \frac{(5.5835 - 4.88727)}{(0.5986)^2 + 0.5724/2} = 3.8599$ 3. Ho: M, = M2 HAIM, 7 M2 d.o.f: hin (20-1, 22-1) = 19 M = organic P(1T1 > 13.85941) = 4.11×10-4 6 0.05 My 3 confort the pralue is small so we would reject the Ho and recognite there is a difference between organic and confort anorality.

