"QUIZ" for Lecture 11

NAME: (print!) Fayed Raza Section: 6

E-MAIL SCANNED .pdf OF COMPLETED OUZ to DrZcalc3@gmail.com (Attachment: q11FirstLast.pdf) ASAP BUT NO LATER THAN Oct. 12, 8:00pm Deadline  $XYZ = \int \chi^2 / 2 = z$ to find the smallest value that x + y + zextended to Oct. 17

**extended to Oct.** 17 **1.** Use Largange multipliers (no credit for other methods) to can be, given that xyz = 125

gradient. (YZ, XZ, XY) of xyz. gradient: 1(1,1) of Kryn: 1(1,1) Yz=入 X z =入 gradient. Of xyz  $\chi_{\gamma} = \mathcal{N}$ XYZ = X57525 .٢٨, x= 25

Use Largange multipliers (no credit for other methods) to find the largest value that xyz can be, given that x + y + z = 15

×C1,1,15 5(3)(2)  $(XYZ)^{2} X^{3} (YZ)XZXXS$  $\chi \gamma z = J \chi^3$ x=15 1×25 25 -メッダンマン