NameUID	
Math 1210-3	•••••
Quiz 7	
March 14, 2008	
Show all work for complete credit!	
1) Farmer Joe wishes to test three new strains of table corn, as well as advertise his farming He will fence off three adjacent and congruent rectangular plots, one for each variety of corn, road as the "northern" (fenceless) border for each plot. The road edge is represented with the lines in the picture below, and the fencing is represented with solid line segements.	using the
Farmer Joe happens to have 600 linear feet of fencing available to construct his plots. What a should he choose for each rectangular plot in order to maximize its area? 1a) Find the answer to the question above using Calculus.	dimensions (7 points)
1b) Explain logically and mathematically why your answer gives MAXIMUM area, using cowe've been discussing. (Use the back of the page if necessary). Precisely, use critical point in	
on an appropriate domain for your function, and/or an INC/DEC or CU/CD argument.	(3 points)