Section _____ **Name** _____

TA _____ **Student Number** _____

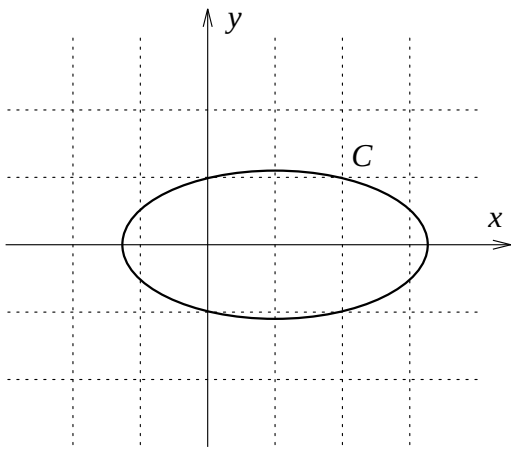
Math 126A **Calculus With Analytic Geometry III** **Fall 1995**

QUIZ #9

11/30/95

Straight lines must be drawn with a ruler; no credit will be given if drawn by hand. Don't worry about algebraically simplifying numbers (i.e. you may leave radicals in the denominator, fractions unreduced, etc.). **Show your work.**

The ellipse C shown below is described by the equation $(x-1)^2 + 4y^2 = 5$. Find the points where the function $f(x,y) = x + 4y + 1$ takes its maximum and minimum values *on the curve* C (not inside it).



Maximum value: [ ] is attained at $(x,y) =$ [ ]

Minimum value: [ ] is attained at $(x,y) =$ [ ]