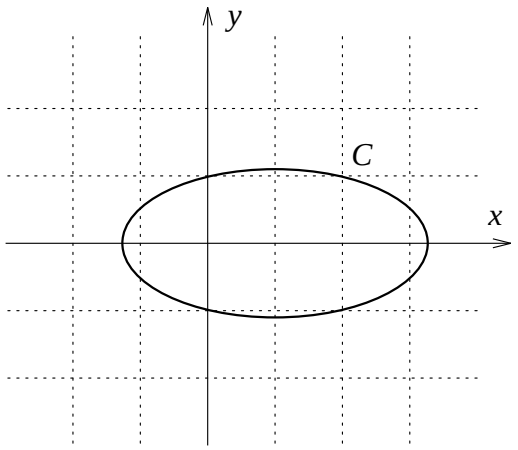
Math 126A **Calculus With Analytic Geometry III** **Fall 1995**

QUIZ #9 ANSWERS

11/30/95

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:	7	is attained at $(x,y)=$	$(2,1)$
Minimum value:	-3	is attained at $(x,y)=$	$(0,-1)$