Math 126B **Calculus With Analytic Geometry III** **Spring 1995**

QUIZ #3 SOLUTIONS

Straight lines must be drawn with a ruler; no credit will be given if drawn by hand. **Show your work.**

1. We are told that $f(x, y)$ is a linear function of two variables. Two of its level curves are shown in the graph below.

   (a) Write an explicit equation for $f(x, y)$.

   $$f(x, y) = \boxed{-\frac{2}{3}x - y + 5}$$

   (b) Draw the level curve of $f(x, y)$ at level 0.