Section _____ **Name** _____

TA _____ **Student Number** _____

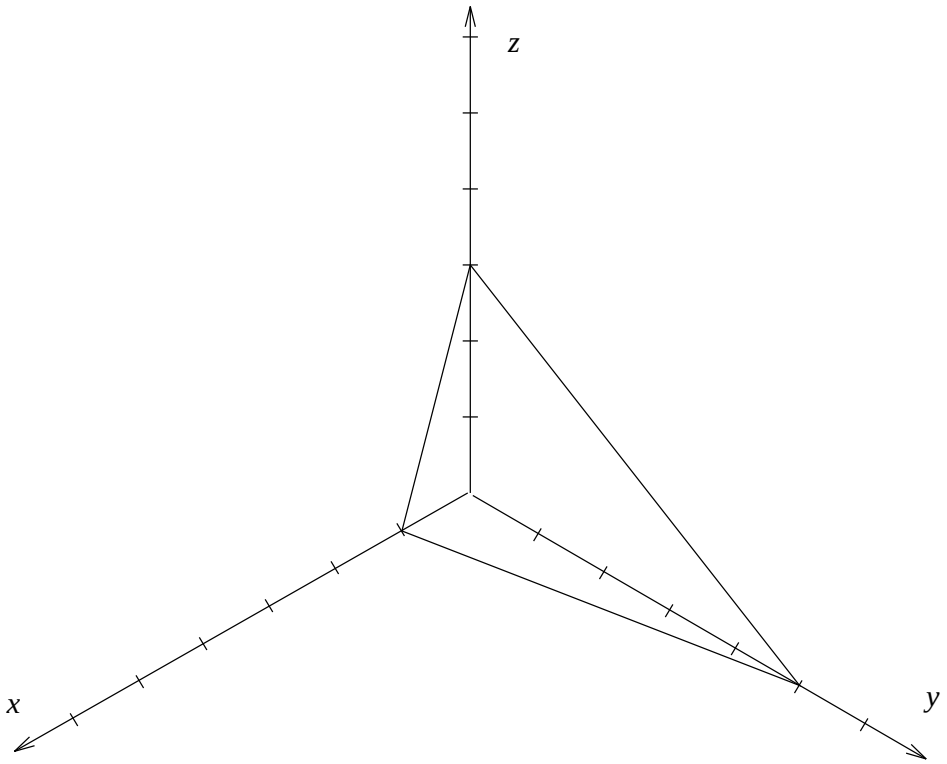
Math 126A **Calculus With Analytic Geometry III** **Fall 1995**

QUIZ 6

11/2/95

NOTE: *The questions below may not be in the same order as they were on the exam.*

Let α be the plane $15x + 3y + 5z = 15$ shown below.



On the left of each statement below circle one of the three choices: **T** (true), **F** (false), or **??** (impossible to decide on the basis of the given information). You don't need to show work to get credit for a correct answer.

T F ?? (a) α is the graph of the function $g(x, y) = 15x + 3y - 15$.

T F ?? (b) α is a level object of the function $f(x, y, z) = 15x + 3y + 5z$.

T F ?? (c) α is the normal object of the line $(x, y, z) = (1 + 15t, 3t, 5t)$ at the point $(1, 0, 0)$.

T F ?? (d) α is a level object of the function $g(x, y) = 15x + 3y - 15$.

T F ?? (e) α is the graph of the function $f(x, y, z) = 15x + 3y + 5z$.