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

QUIZ 6 ANSWERS

11/2/95

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

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 $f(x, y, z) = 15x + 3y + 5z$.