Math 225: Calculus III Quiz 4 September 25, 2003

Name:	
Section:	

1. Find the limit
$$\lim_{(x,y,z)\to(0,0,0)} \frac{xy+2yz+3xz}{x^2+y^2+z^2}$$
 or show it does not exist.

2. Find the slope of the line tangent to the curve of intersection of the surface $z = \sin(2x^2y - y^2)$ and the plane x = 1 at the point (1, 2, 0).