Math 2110Q - Multivariable Calculus Name:

Show all your work to get credit!

1. Show that the following limit does not exist:

$$\lim_{(x,y)\to(0,0)}\frac{x^2-4y^2}{x^2+2y^2}$$

Quiz 4

Reading Question:

Explain how to find the gradient vector for a function f(x, y), a formula will suffice.