

Quiz 4

MAC 2313-03

Spring 2010

Full Name: _____

Score: _____

Show all of your work for full credit.

1. Does the following limit exist:

$$\lim_{(x,y) \rightarrow (0,0)} \frac{6x^3y}{2x^4 + y^4}$$

2. Given $f(x, y,) = \ln(x^2y)(x^2y + \frac{x}{y})$, find $\frac{\partial f}{\partial y}$.