

Quiz 3  
5/23/2024

Name: \_\_\_\_\_

1. Let  $f(x, y) = \frac{x}{x+y}$ . Find  $f_x(1, 2)$ .

2. Explain why the following limit does not exist.

$$\lim_{(x,y) \rightarrow (1,1)} \frac{x-1}{x^2-y^2}$$