Name: February 5, 2015 MAC 2313.3122 Cyr

Quiz 4 You must show all work to receive full credit!! **Problem 1.** Let $f(x,y) = \frac{1}{x^2 + y^2 + 1}$. (a) (2 pts) Evaluate f(-3,5).

(b) (3 pts) Find the domain of f(x, y).

(c) (2 pts) Find the range of f(x, y) (write your answer in interval notation).

(d) (3 pts) Write an equation for the level curve $f(x, y) = \frac{1}{5}$, and use it to describe the graph of the level curve.