

Name: _____ MATH 210 Quiz 3 (Sep 16, 2005) no calculators!

1. Let $f(x, y) = \sin(xy)$.

• What is the domain of f ?

• $f\left(\frac{\pi}{2}, \frac{1}{2}\right) =$

• What is the range of f ?

• Sketch the level curve $f(x, y) = 0$.

2. Sketch the domain of $f(x, y) = \sqrt{x^2 + y^2 - 1} + \ln(4 - x^2 - y^2)$.