

Name:

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MAC 2313.3118

Cyr

Quiz 4

You must show all work to receive full credit!!

Problem 1. Let $f(x, y) = \sqrt{4 - (x^2 + y^2)}$.

(a) (2 pts) Evaluate $f(1, 1)$.

(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 $f(x, y) = 1$, and use it to describe the graph of the level curve.