



ID number:

October 22, 2015

Quiz 4 (50 min)

Exercise 1: (2 points)

Find an equation for the plane that passes through (1, 2, 3) and parallel to both $u = 2i + 3j + k$ and $v = i - j + 2k$

Exercise 2: (3 points)

Find and sketch the domain of $f(x, y) = \sqrt{(x^2 - 4)(y^2 - 9)}$

Exercise 3: (3 points)

Find an equation and then sketch the level curve of $f(x, y) = \sqrt{x + y^2 - 3}$ that passes through (3, -1)

Exercise 4: (2 points)

Find an equation of the plane through the points (0,1,1), (1,0,1) and (1,1,0)

Extra credit: (3 points)

Find and sketch the domain of $f(x, y) = \sqrt{1 - x^2} - \sqrt{1 - y^2}$