Name:

Math 208, Section 3

Quiz number 6

Show all work. How you get your answer is just as important, if not more important, than the answer itself. If you think it, write it!

1. Find the maximum and minimum values of the function

$$f(x, y) = 3x^2 + 2y^3$$

   in the region $g(x, y) = x^2 + y^2 \leq 4$.