Name:_____

Math 2030, Fall 2017, Quiz 7 20 October 2017 R. Bruner

No calculators needed or allowed.

1. Find the maximum and minimum values of 3x + 4y on the circle $x^2 + y^2 = 1$.

2. Find and classify the critical points of $f(x, y) = x^3 + xy^2 - 4x - y^2$.