

Mathematics 21a Fall 2006
In class problems. Nov. 9

1. On the plane $x + 2y + 3z = 6$ find the point closest to the origin. Hint: minimize the distance square function.

2. Find the absolute maximum for the function $f(x, y) = x^2 - y^2$ on the unit disk $x^2 + y^2 \leq 1$.