Time: 10min

QUIZ 7

- 1. Find the points on the ellipsoid $x^2 + 2y^2 + 3z^2 = 1$ where the tangent plane is parallel to the plane 3x y + 3z = 1.
- **2.** Find maximum and minimum values of $f(x,y) = x^2 + y^2$ subject to the constraint $x^4 + y^4 = 1$.

Each problem is worth 5 pts.