Math 869: Assignment 4

Due Friday April 18

Problem 1. Given a map $f : S^{2n} \rightarrow S^{2n}$, show that there is some point $x \in S^{2n}$ such that $f(x) = x$ or $f(x) = -x$. Deduce that every map from the real projective space $RP^{2n}$ to itself has a fixed point.

