Manifolds, V2018

Problem sheet 3, to be discussed on Monday the 12th February 2018.

Problem 1. Tu, Problem 8.4.

Problem 2. Show that the projection $\pi : \mathbb{R}^{n+1} \setminus \{0\} \to \mathbb{RP}^n$ is a submersion and that $\pi|_{S^n}$ is a local diffeomorphism.