

Lean basics

KunihikoK3

April 17, 2024

**Theorem 1** (Smale 1958). *There is a homotopy of immersions of  $\mathbb{S}^2$  into  $\mathbb{R}^3$  from the inclusion map to the antipodal map  $a : q \mapsto -q$ .*

*Proof.* This obviously follows from what we did so far. □