Intermediate Value Theorem Project

Quinn Oveson

Carter Hastings

 $\mathrm{June}\ 12,\ 2025$

0.1 Definitions

Definition 1 (Sequence). A sequence is a function $s: \mathbb{N} \to X$ for some set X.

Theorem 2 (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.