

MA 771 Exercises

- 2.5. Given an orientation-preserving homeomorphism $f : S^1 \rightarrow S^1$ with no periodic points, we defined a number s_f in class using “next nearest neighbors” and continued fractions. Show that $s_f = \rho_f$ in \mathbb{R}/\mathbb{Z} (ρ_f denotes the rotation number of f).