

Dynamical Systems, Prof. Hooper
Homework Assignment on Sharkovsky's Theorem
Due: Wednesday, April Mar 27th

Assignment: Suppose that $f : \mathbb{R} \rightarrow \mathbb{R}$ is a continuous function and that f has a point p of least period five so that

$$p < f^3(p) < f^2(p) < f^4(p) < f(p).$$

Prove that f has points of all possible periods other than three.