

Homework 4

1. Elaydi problem 1 page 70
2. Elaydi problem 2 page 70
3. Elaydi problem 15 page 71
4. Give an example of a continuous function f and an attracting cycle which does not attract however any critical point of f .
5. Let $f : I \rightarrow I$ be a continuous function. Prove that every attracting fixed point of f is stable. [Hint: Use problem 6 from Homework 2 and problem 6 from Homework 3.]