MATH 150

10.30.12

Newton’s Method Lab

CWID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In Newton’s Method, a “basin of attraction” for the root *a* of a function f(x) is the set of all starting values of the method that converge to *a*.

e.g. the basin of attraction of a = 1 for f(x) = x2 – 1 is (0, ∞).

Find the 3 roots and 3 basins of attraction for the 3 roots of

(x)=x^3-2x^2-11x+12