SOLUTIONS TO HW 6:

33.1 #9.11 31, 13, 14 Second Method program

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411. not graded

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413 fox1= e^{-4x} - 1/10 Use [0,5] } Prob 2

Bisection is Much faster

Prob 3

414. R. fox1= \frac{1}{2} on [0,5] This function is always positive

50 both methods fail.

b. fcr = 1 on [0,3] This function also has no root,
but fco) f(5) <0 80 the algorithms

For bisection, the algorithm hones in on  $C \approx 1$  but  $f(c) = \pm 1$  Hage numbers!

Since f(x) approaches The asymptote at x=1.

For regula fabi, at the 3rd Heration C=1 and f(e) = wo! Successive iterations return NaN.

Program