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An Introduction to Computational Science by Allen Holder and Joseph Eichholz

Chapter 1 - Solving Single Variable Equations

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Problem 3. Show that the secant method can diverge even though the error, i.e. the value of $|f(x_k)|$, in solving

$$f(x) = \frac{x}{1+x^2} = 0$$

diminishes at each iteration.