

Homework: Secant Method

1. Write a function m-file for the Secant method based upon the m-file that I gave you.
2. Test your method using the function $y = e^{-x} + x - 2$ with appropriate initial guesses and without user defined `xtol` and `ytol`.
3. Use your **Secant** method to find the roots of $y = (x + \exp(x))\cos(x)$. Clearly state the starting values that you use in each case and the root that it obtained.