

Homework: Roots Summary

1. For the function $y = \sin(3x) - \cos(x) + (2/5)x^2$, visually estimate all the roots on the interval $[-4,4]$. Try to be accurate at least to 0.05.
2. Use your **Bisection** Method to find all the roots. Clearly state the initial interval that you use in each case and the root that it obtained.
3. Use your **Newton** method to find all the roots. Clearly state the starting value that you use in each case and the root that it obtained.
4. Use your **Secant** method to find all the roots. Clearly state the starting values that you use in each case and the root that it obtained.