

## 02: PYTHON BASICS CONTINUED

- 1: How many bisections do you expect to need if the tolerance is  $10^{-3}$ ?  $10^{-6}$ ?  $10^{-9}$ ? Explain your reasoning.
- 2: How (aside from actually changing the function in the code) could you make `bisection.py` easier to use for different functions?
- 3: What are the differences between lists and tuples? Tuples and dictionaries? Sets and dictionaries? In what cases might you use each?
- 4: How would you check within an `if` statement if a variable is a list or not? Why would you need to do this?