Computational Physics / PHYS-UA 210 / Problem Set #2
Due September 13, 2019

You *must* label all axes of any plots, including giving the *units*!!

1. What is the binary representation of the decimal integer 121?

2. Exercise 2.9 of Newman. Note that the physical constants drop out so you do not need to worry about them (whenever possible you should seek to remove physical constants from the innards of your computations!). Write two versions of the code, one which uses a `for` loop and one which does not. Use `%timeit` to determine which is faster.

3. Exercise 3.7 of Newman. Note that you can use a NumPy array to perform the iterations for each value of c all at once, which will be much faster than using a `for` loop over c.

4. Exercise 4.2 of Newman.