MTH 337 Intro to Scientific computing
SAMPLE QUIZ #6

Fall 2020 Instructor: Simone Cassani

The Sample Quiz is for you to practice for the quiz that will be at the end of class on Monday on Gradescope.

(1) Write the code to generate a `numpy` array with 6 elements all equal to 4

(2) Given the `numpy` array `myarray`, write the code to compute the *sine* of all the numbers in the array

(3) Produce a `numpy` array `x` that contains 101 equally spaced points for the interval $[-2, 2]$

(4) Produce a `numpy` array `w` starting at 4.01, ending at 4.71 with a step pf 0.1

(5) Write code that creates a plot of the function

$$f(x) = x^2 + 1 \text{ for } -1 \leq x \leq 1$$

Use at least 100 points

(6) Write code that creates a plot of the function

$$f(x) = \tan x \text{ for } 0 \leq x \leq \pi$$

Use at least 1000 points

(7) Write a statement that generates a subplot located in the lower left corner of a 3×3 grid (just a statement generating the subplot, don't plot anything in it).