MTH 337, SAMPLE QUIZ #6

Fall 2022 Name: _____

Professor: S. Cassani (Also print name on back upper right corner of quiz.)

You have 10 minutes to complete the quiz. Max score: 10

	Python Code	**Result**	

1	`import numpy as np`
	`a=np.array([1,2,3,4,5])`
	`b=a**3`
	`print(b)`		

2	`a=np.arange(1,2.55,0.5)` `print(a)`		
3	`a=np.linspace(1,5,5)` `print(a)`		
4	`a=np.zeros(4)+ 2*np.ones(4) + 1` `print(a[2:])`		
5		Given `a=np.ones(10)`, change the last 3 entries of the array to 4	

6		Assume for the remainder of the quiz that the following command has been run
		`import matplotlib.pyplot as plt`
		`import numpy as np`
		create the plot of the function
		$$y = \sin(\pi^2 x^3) \quad -\pi \leq x \leq 2\pi$$
		Use 100 points	

7		Create the plot of the function $$y = x^2 + x - 3 \quad 0 \leq x \leq 5$$ Use 100 points	
		Total Points:	