MTH 337, SAMPLE QUIZ #5

Fall 2021 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	`def s(a):`
	`  return a**(1/3)`
	
	`mylist=[1,8,27,64]`
	
	`mylist2=[s(k) for k in mylist]`
	
	`print(mylist2)`		

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

3	`a=np.arange(1,2.55,0.5)` `print(a)`		
4	`a=np.linspace(1,5,5)` `print(a)`		
5	`a=np.zeros(4)+ 2*np.ones(4) + 1` `print(a[2:])`		
7		Assume for the remainder of the quiz that the following command has been run `import matplotlib.pyplot as plt` Write a statement that generates a subplot located in the top right corner of a 4×3 grid (just a statement generating the subplot, don't plot anything in it).	
8		Write code that creates a plot of the function $$f(x) = x^4 - 2x \quad \text{for } -1 \leq x \leq 5$$ Use 100 points	
9		Write code that creates a plot of the function $$f(x) = \log(x+4) \quad \text{for } 1 \leq x \leq 3$$ Use 10 points	
		Total Points:	