## **EOSC 211: Some Review plus Built-In Functions, Arrays Preview**

Name 1:		
Name 2:		
CONCEPTS:  1. Review variable assignment, structural elements of MATLAB  2. Introduce the idea of arrays (from lab)  3. Using built-in functions		
A. The code snippet below was intended to calculate the surface area of the Earth and print the answer to the screen. What is the actual output (describe the quantity in words) of the code snippet?		
OUTPUT IS		
<pre>% radius of Earth in km radius = 6371; area = 4*pi*radius*radius; % radius of Moon in km radius = 1739; area = 4*pi*radius*radius</pre>		
B. Identify in the code snippet:		
Variable names		
Functions		
Special characters		
Operators		
C. Next to each line of the code snippet write down what the line of code does.		
D. What happens if I now type clear?		

<b>E. A</b>	ssume that I have the following variable, mags, that I have defined or loaded in MATLAB
>> n	nags
mags	5 =
	4.2000 4.1000 4.1000 4.3000 4.2000 4.4000 4.1000 4.0000 4.7000
mags	is list (array) of 10 numbers
What	would I type to
a) acc	ess the magnitude in the 3 <sup>rd</sup> row
b) def	Tine a new variable called mags2 containing the magnitude in the last row:
fo	Built-In Functions: Assume you have variable mags defined above. What is the output to the screen of the ollowing command? Write down in words the steps involved in getting the output.  3 = max(mags(3:8))
0	Output is:
	What were the steps 1
	2
	3
	4