GEORGIA SOUTHERN UNIVERSITY

MATLAB Marina: Variables

1. From the MATLAB Command Window enter and execute the MATLAB statements in Figure 1 paying attention to the variables and their values in the MATLAB Workspace window.

```
value1 = 5
Value1 = 5
value2 = -4
value3 = 6 + 7
clear Value1
clear all
clc
```

Figure 1. MATLAB Statements for Exercise 1

2. From the MATLAB Command Window enter and execute MATLAB statements to do the following (as you execute each statement, examine the Workspace to see how the statements affect the variables):
   a) Assign the value of 25 to the variable `testVar`.
   b) Display the value of the `testVar` variable. Use the MATLAB `disp` function: `disp(testVar);`.
   c) Assign the value of 100 to the variable `testVar`. Display the value of `testVar` using the `disp` function.
   d) Assign the character value `'c'` to `testVar`. Character values need to be enclosed in single quotes, `testVar = 'c';`. Display the value of `testVar` using the `disp` function.
3. From the MATLAB Command Window perform the following operations:
   a) Create a variable named x with a value of 17, create a variable named `m` with a value of 1.5, and create a variable named b with a value of 10.
   b) Evaluate the expression y = `m*x + b`, i.e. evaluate `m*x + b` for the defined values and save the result in y.
   c) Assign the value of 8 to b.
   d) Evaluate the expression y = `m*x + b` for the new value of b.

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