

Course Text Permitted. Time: 10 minutes.

1. What is the basic user interface for MATLAB?

- a. MATLAB Desktop
- b. MATrix LABoratory Window
- c. MATLAB Command Window
- d. MATLAB Figure Window

10

2. How many GUI tools are accessible from the MATLAB Desktop?

10

3. Enter the command that will list the name and size of all the MATLAB variables in the Workspace.

whos

4. Assume the workspace contains variables named x, y and z. Enter the command which will delete only the variable x.

clear x

5. What is the name of the command that can start the Workspace Browser from the Command Window?

workspace

6. The contents of a variable can be displayed by double-clicking the mouse on the variable name in the Workspace Browser.

- a. True
- b. False

7. Previously executed MATLAB commands can be recalled using the:

- a. Page Up key
- b. Backspace key
- c. Up Arrow key
- d. Esc key

8. What is the name of the command that can start the Current Directory Browser from the Command Window?

file browser

9. You have an open MATLAB Command window. The present working directory for your MATLAB session is C:\MATLAB\work. The MATLAB workspace contains four variables named: var1, var2, var3 and var4. List the MATLAB commands (and only the MATLAB commands) that will save the variables var2 and var3 in the file results.mat in the directory C:\MATLAB.

Clear var1

Clear var4

~~save file browser~~ cdl  C:\MATLAB

Save results

✓

## ELECTRICAL ENGINEERING 290

## Quiz 2

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Time: 10 minutes

1. Arrange the following symbols in their order of precedence when used in a MATLAB statement,  $\wedge$ ,  $+$ ,  $*$ ,  $-$ ,  $( )$ ,  $/$ .

Highest  $( )$ 
 $\wedge$   
 $*, /$   
 $+, -$ 

Lowest

2. Enter the MATLAB statement(s) that will evaluate the absolute value of  $x$ .

ans = abs(x) ✓

3. What is the MATLAB statement(s) that will calculate  $x$ , where  $2e^{2x} = 12$ .

ans = log(6)/2 ✓

4. What is the MATLAB statement(s) that will produce the cube root of 8?

~~ans = 8^(1/3)~~ ans = 8^(1/3) ✓

5. In MATLAB is  $\sin(0) = 0$ ? Why or why not?

Yes, because  $\frac{0}{1} = 0$ . ✓

6. What is the MATLAB statement(s) that will evaluate  $\cos(\theta)$ , where  $\theta = 60$  degrees?

ans = cos(60 \* pi/180) ✓

7. What is the MATLAB statement(s) that will evaluate  $\ln(e^4) - \log_{10}(10^4)$ ?

ans = log(exp(4)) - log10(10^4) ✓

8. What is the MATLAB statement(s) that will evaluate  $\arccos(a/c) - \sin(b/c)$ , where  $a = 2\sqrt{3}$ ,  $b = 2$ ,  $c = 4$ ?

ans = acos(2\*sqrt(3)/4) - sin(2/4) ✓

9. List two different MATLAB statements that will calculate  $\sqrt{5}$ .

sqrt(5), 5^(1/2) ✓

10. What is the purpose of a semicolon (;) at the end of a MATLAB statement?

to suppress the display of a command, or to end a command to put multiple commands on the same line. ✓

