# Mathematical Methods and Circuit Analysis using MATLAB

| Item Text | Option Text 1 | Option Text 2 | Option Text 3 | Option Text 4 |
|---|---|---|---|---|
| MATLAB stands for_____. | Matrix laboratory | Math library | Matrix library | Matric library |
| Which command is used to clear a command window in MATLAB? | clear | close all | clc | clear all |
| A MATLAB command used to display the value of variable x is_____. | display(x) | disp(x) | disp x | vardisp('x') |
| Which of the following is the invalid variable name in MATLAB? | z | x5 | last6 | 6x |
| Which command gives a title to the graph plotted by MATLAB? | plot() | hlabel() | title() | heading() |
| Which command enables a title for the x-axis? | xlabel() | horilabel() | ylabel() | vertilabel() |
| Which command enables a title for the y-axis? | xlabel() | horilabel() | ylabel() | vertilabel() |
| Which of the following commands can be used to generate multiple graphs in the same window? | hold on | plot() | plot3() | wait() |
| Which of the following Matlab command clears all data and variables stored in memory? | clc | clear | delete | deallocate |
| Which of following is the assignment operator in MATLAB? | + | = | * | / |
| What is the default increment value in a **for loop**? | 0 | 2 | 1 | 3 |
| The if structure in MATLAB is_____. | Conditional Structure | Logical structure | nested structure | unconditional structure |
| The switch-case structure is a _____. | Conditional Structure | Logical structure | Multidimensional structure | Hierarchical structure |

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|---|---|---|---|---|
| How do we create horizontal bar graphs in MATLAB? | barh() | bar3() | bar3h() | barxyz() |
| What is the MATLAB command to clear variables x, y and z? | clear x y z | erase  x y z | delete x y z | remove x y z |
| A simple 2D plot command in MATLAB is____. | plot(x,y,z) | plot2d(x,y) | plot(x,y) | draw(x,y) |
| Which of the following is the main window of MATLAB? | Edit window | Graphics window | Figure window | Command window |
| The fundamental data type in MATLAB is____. | array | string | object | matrix |
| The name of MATLAB script file  has the extension of_____. | .mat | .m | .mex | .mar |
| The name of MATLAB function  file  has the extension of_____. | .m | .mat | .mar | .mex |
| A surface plot in MATLAB is created by the command_____. | surf(X,Y,Z) | surface(X,Y,Z) | surf X,Y,Z | surface X,Y,Z |
| A mesh plot in MATLAB is created by the command_____. | mesh X,Y,Z | mesh(X,Y,Z) | meshgraph(X,Y,Z) | meshgraph X,Y,Z |