INTRODUCTION TO MATLAB

Name: Om Ashish Mishra

Reg.no.: 16BCE0789

INTRODUCTION TO MATLAB

Experiment -1 (11-07-2016)

1. Take any matrix A of order 3x3 and perform the following through mat lab.

(a) Find the element (1,1), (2,3) and (3,1).

(b) Find the transpose of the matrix.

(c) Find determinant of the matrix.

(d) Find the adjoint of the given matrix.

2. Draw the graph of the function x^2 using plot command and ezplot command.

New Commands

plot(x,y) : Its used for plotting points with respect to x and y axis.

`ezplot(fun)` : plots the expression `fun(x)` over the default domain -2π < x < 2π, where `fun(x)` is an explicit function of only x. fun can be a function handle or a character vector.

transpose(x) : its helps transposing a matrix

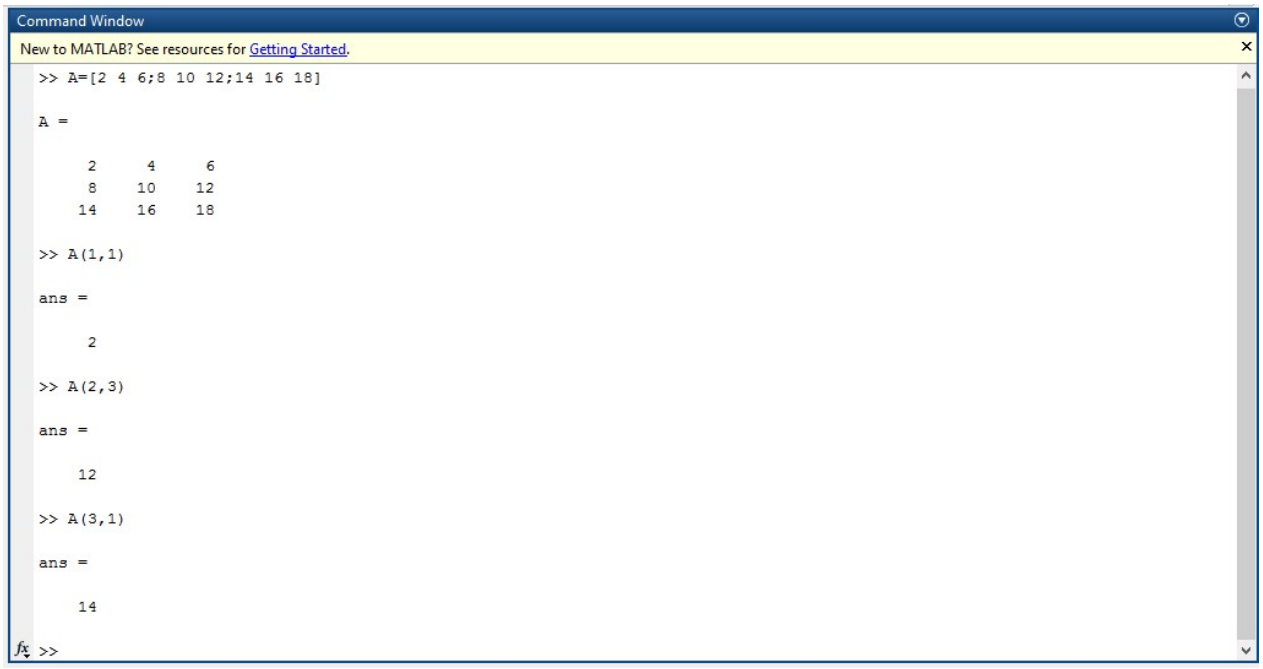
adjoint(x) : its used for adjoint finding

det(x) : it is used to find determinant for a matrix in matlab

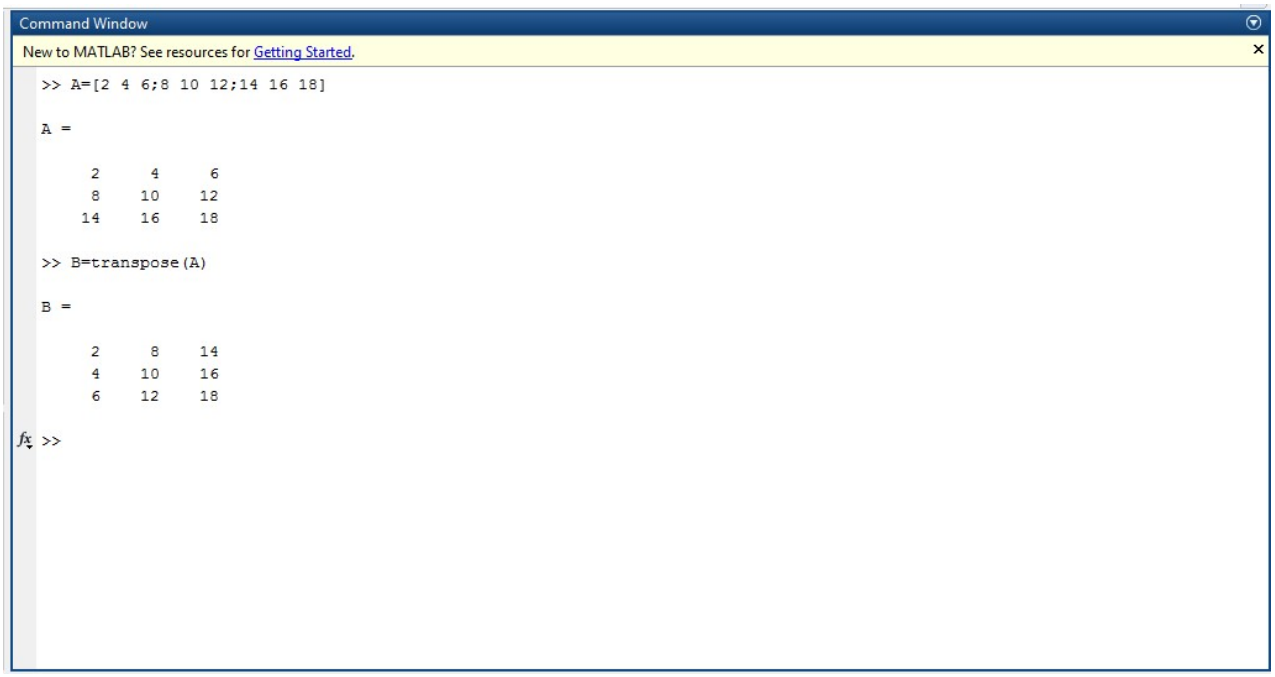
Solutions

Ans 1:

(a)



(b)



(c)

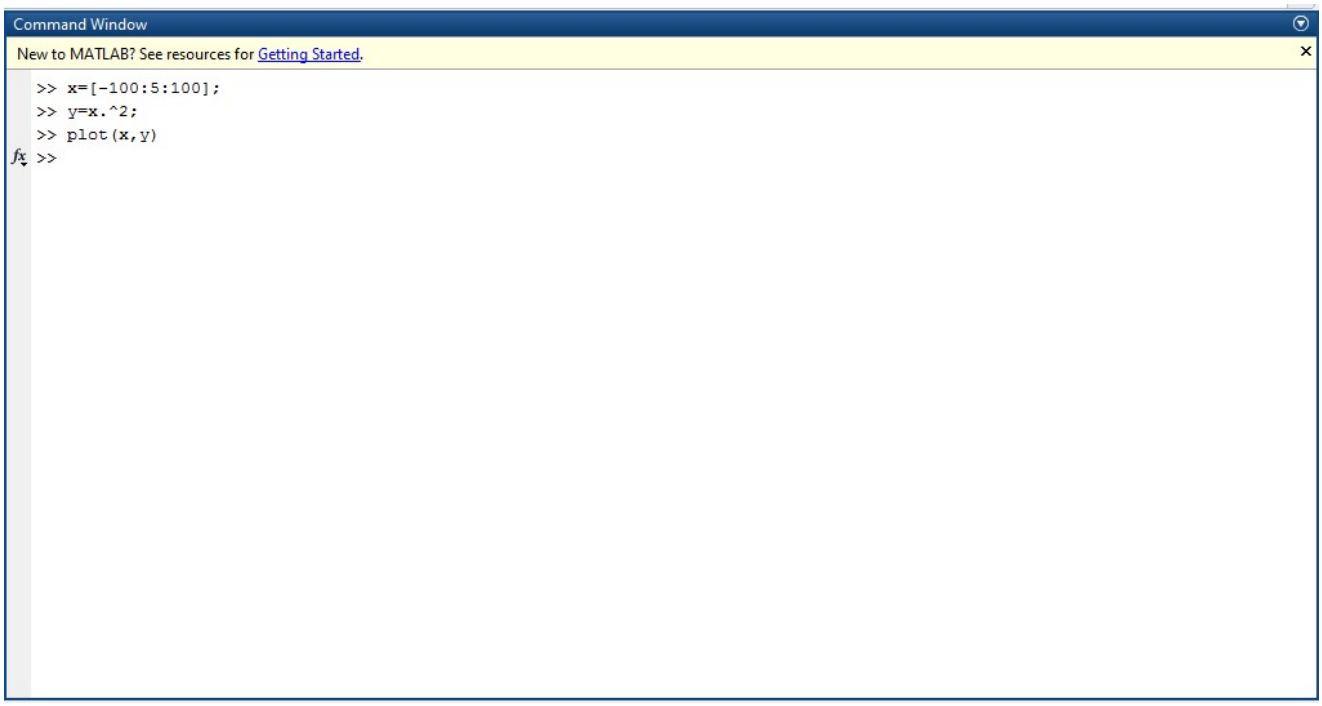
Command Window
New to MATLAB? See resources for Getting Started.
>> import sym
>> A=sym([2 4 6;8 10 12;14 16 18])
A =
[2, 4, 6]
[8, 10, 12]
[14, 16, 18]
>> det(A)
ans =
0
>>

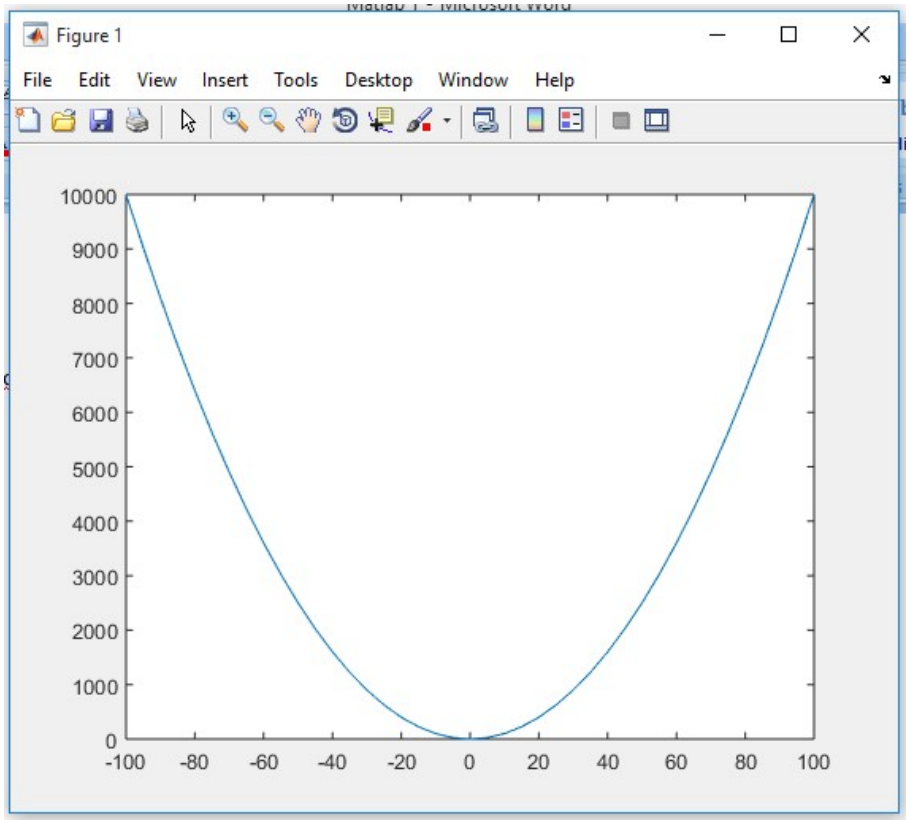
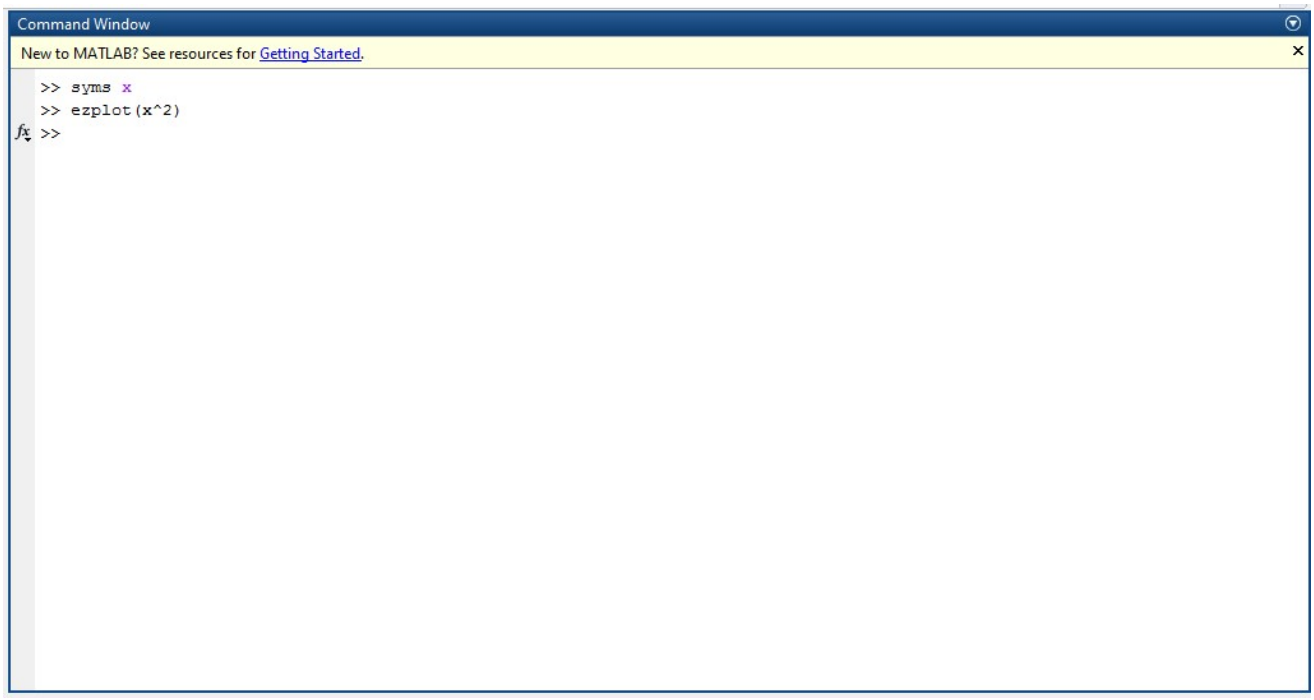
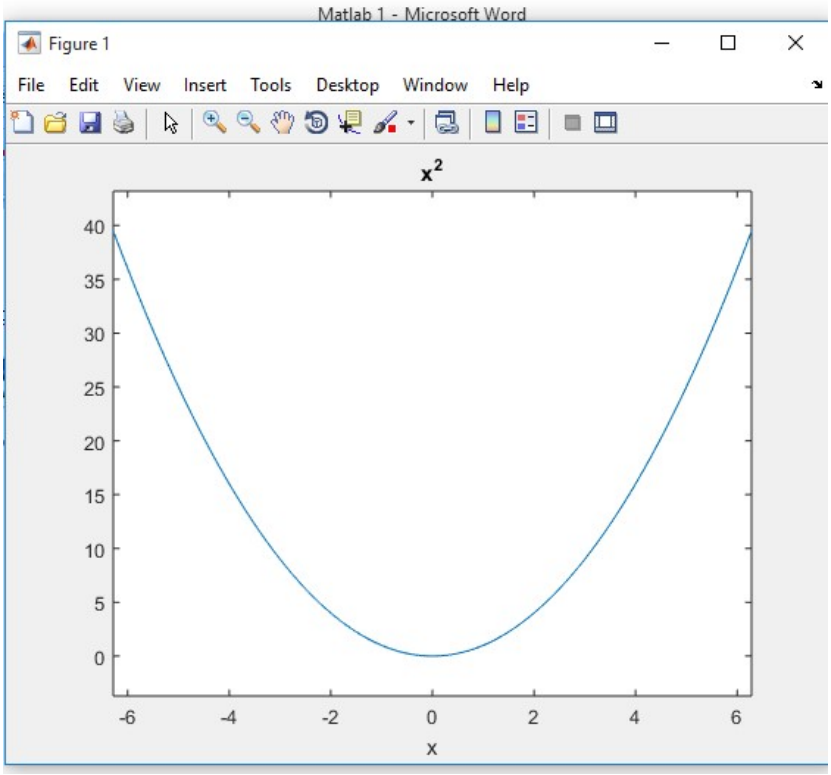
(d)

Command Window
New to MATLAB? See resources for Getting Started.
>> import sym
>> A=sym([2 4 6;8 10 12;14 16 18])
A =
[2, 4, 6]
[8, 10, 12]
[14, 16, 18]
>> X=adjoint(A)
X =
[-12, 24, -12]
[24, -48, 24]
[-12, 24, -12]
>>

Ans 2:

Using plot command:





Using ezplot command: