

LAB #05

Gain familiarity with Complex Numbers and plot, Complex exponential signals, Real exponential signals



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CSE-301L Signals & Systems Lab

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Section: C

“On my honor, as a student of the University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work”

Submitted to:

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(1 April 2023)

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Task 1

Function Code:

Code :

Output:

>> Task1

$Z = 3 + j4$ Magnitude = 5 Phase = 0.927295 Ph(deg) = 53.130102

Task 2

Function Code:

Function Code:

Code :

Output:

>> Task2

$Z = 0 + j-7$ Magnitude = 7 Phase = -1.570796 Ph(deg) = 90.000000

$Z = 0 + j-1.428571e-01$ Magnitude = 1.428571e-01 Phase = -

1.570796 Ph(deg) = -90.000000

Task 3**Code:**

Output:

>> Task3

Enter first Complex number :2+3i

Enter second Complex number :1+3i

$Z = 3 + j6$ Magnitude = 6.708204e+00 Phase = 1.107149 Ph(deg) =

63.434949

Task 4**Code:**

Output:

>> Task4

Enter first Complex number :4+2i

Enter second Complex number :2+2i

$Z = 4 + j12$ Magnitude = 1.264911e+01 Phase = 1.249046 Ph(deg)

= 71.565051

$Z = 1.500000e+00 + j-5.000000e-01$ Magnitude = 1.581139e+00

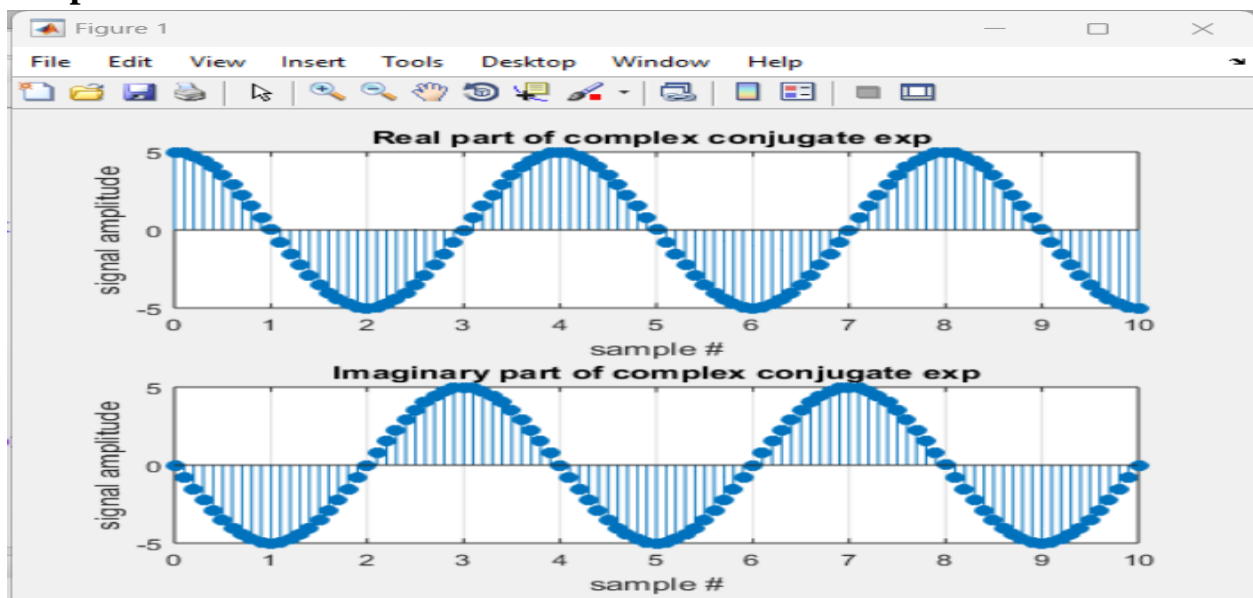
Phase = -0.321751 Ph(deg) = -18.434949

Task 5

Code:

[illegible]

Output:

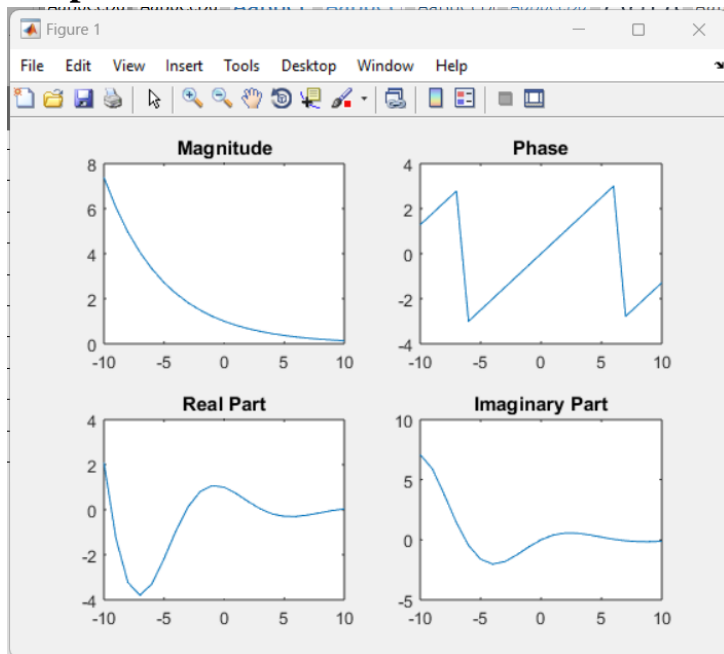


Task 6

Code:

[illegible]

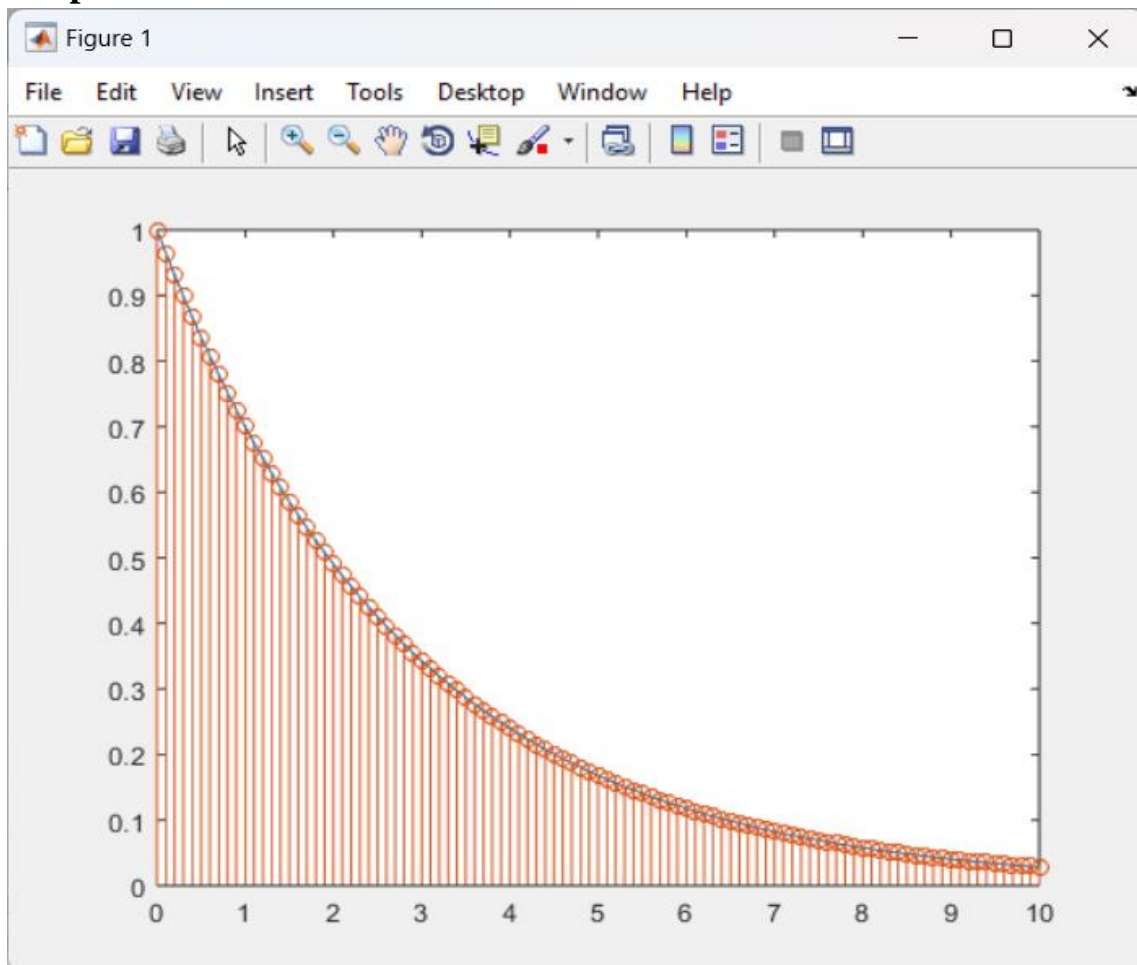
Output:



Task 7

Code:

Output:

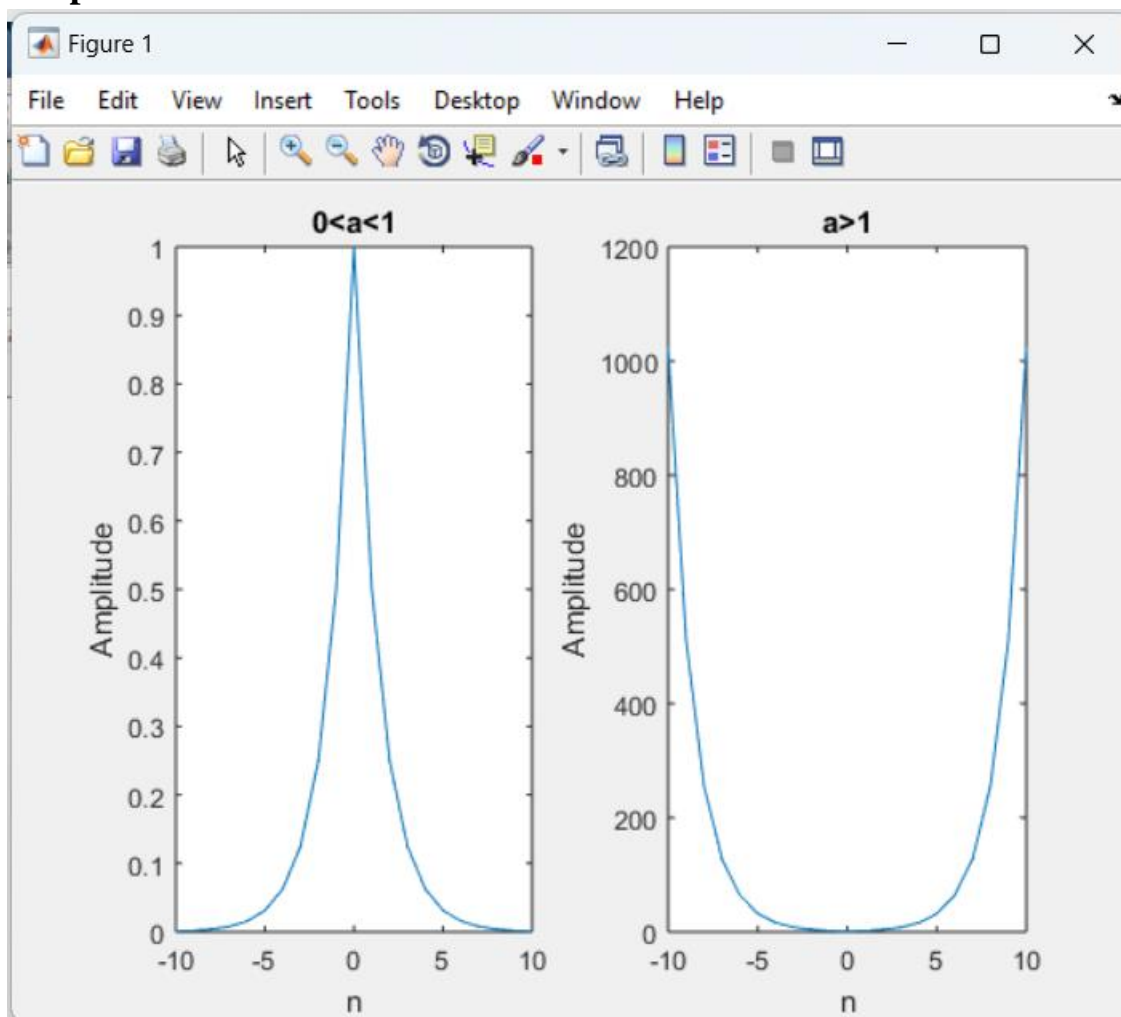


Task 8

Code:[illegible]

[illegible]

Output:



Task 10

Code:

[illegible]

Output:

