

LAB #06

Generating Sinusoids, Addition of Sinusoids with Variation in Parameters and their Plots, Linear Phase Shift Concept When Dealing with Sum of Sinusoids



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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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(7 April 2023)

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Task 1

Code:

Output:

```
>> task1
```

```
v = Columns 1 through 8
```

```
    0.7071    0.0000   -0.7071   -1.0000   -0.7071   -0.0000    0.7071  
    1.0000
```

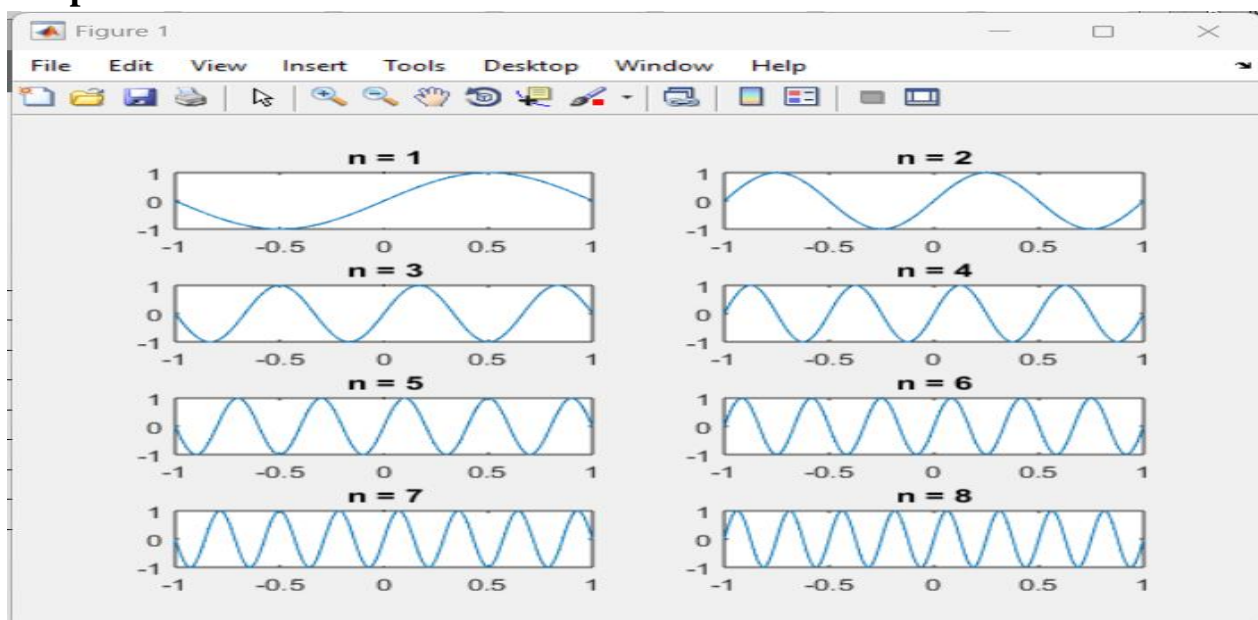
```
Columns 9 through 10
```

```
    0.7071    0.0000
```

Task 2

Code:

Output:

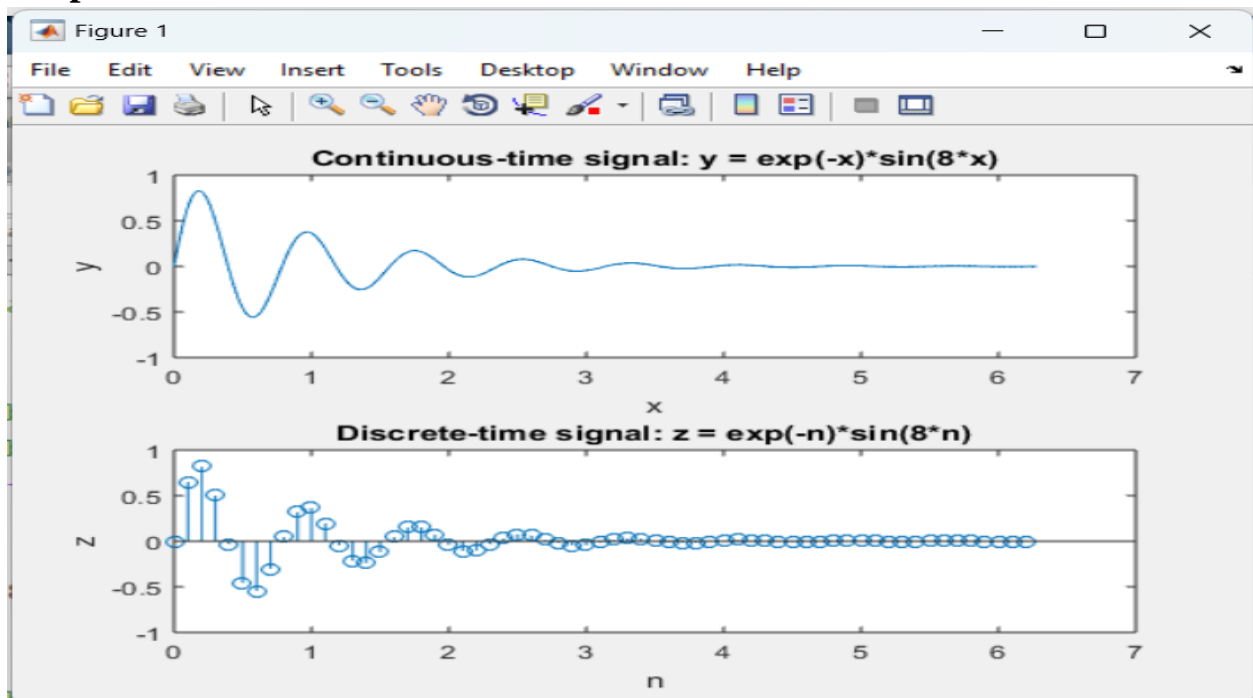


Task 3

Code:

[illegible]

Output:

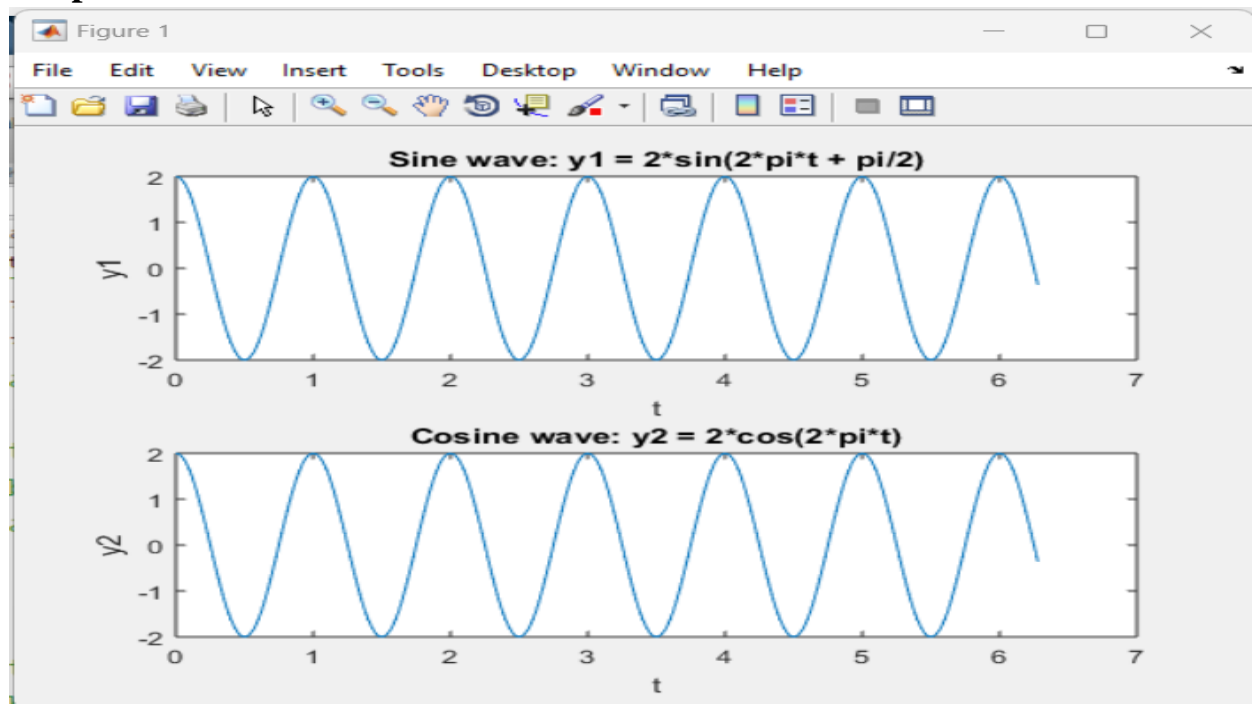


Task 4

Code:

[illegible]

Output:

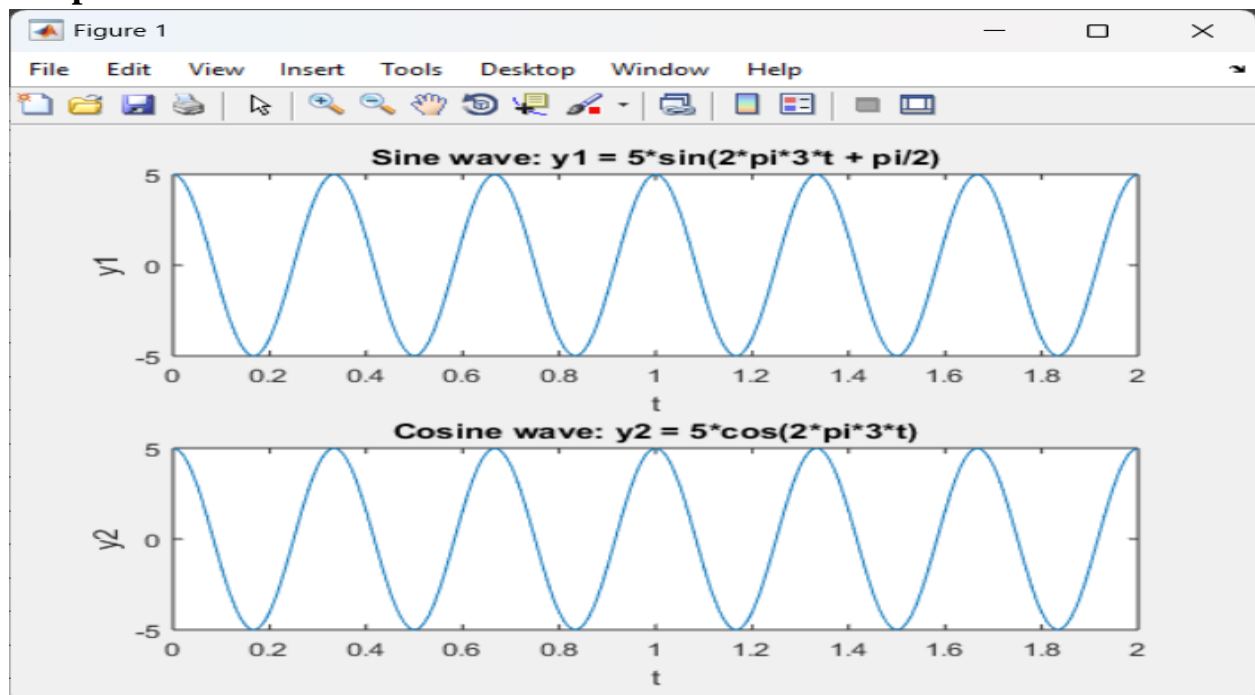


Task 5

Code:

[illegible]

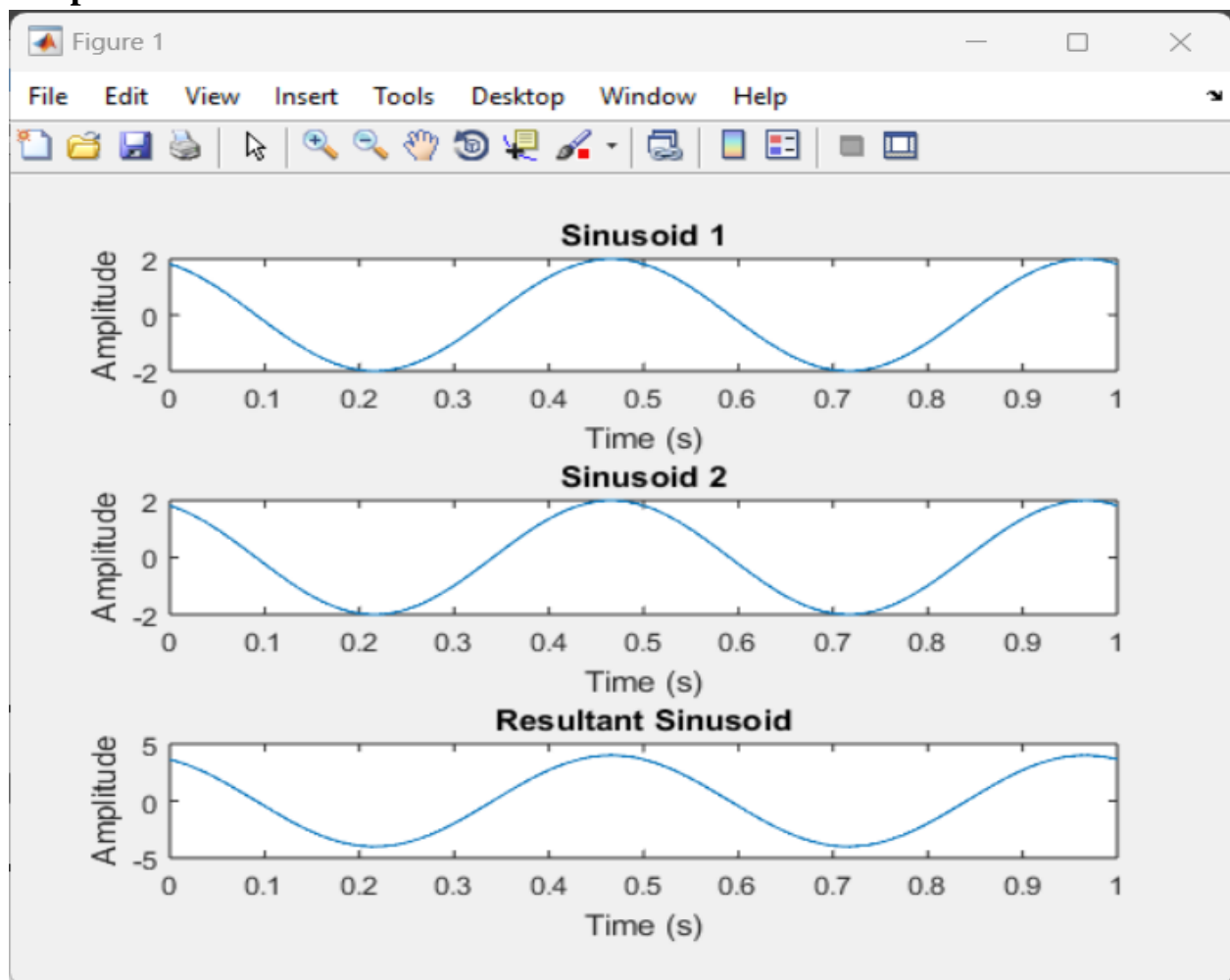
Output:



Task 6

Code:[illegible]

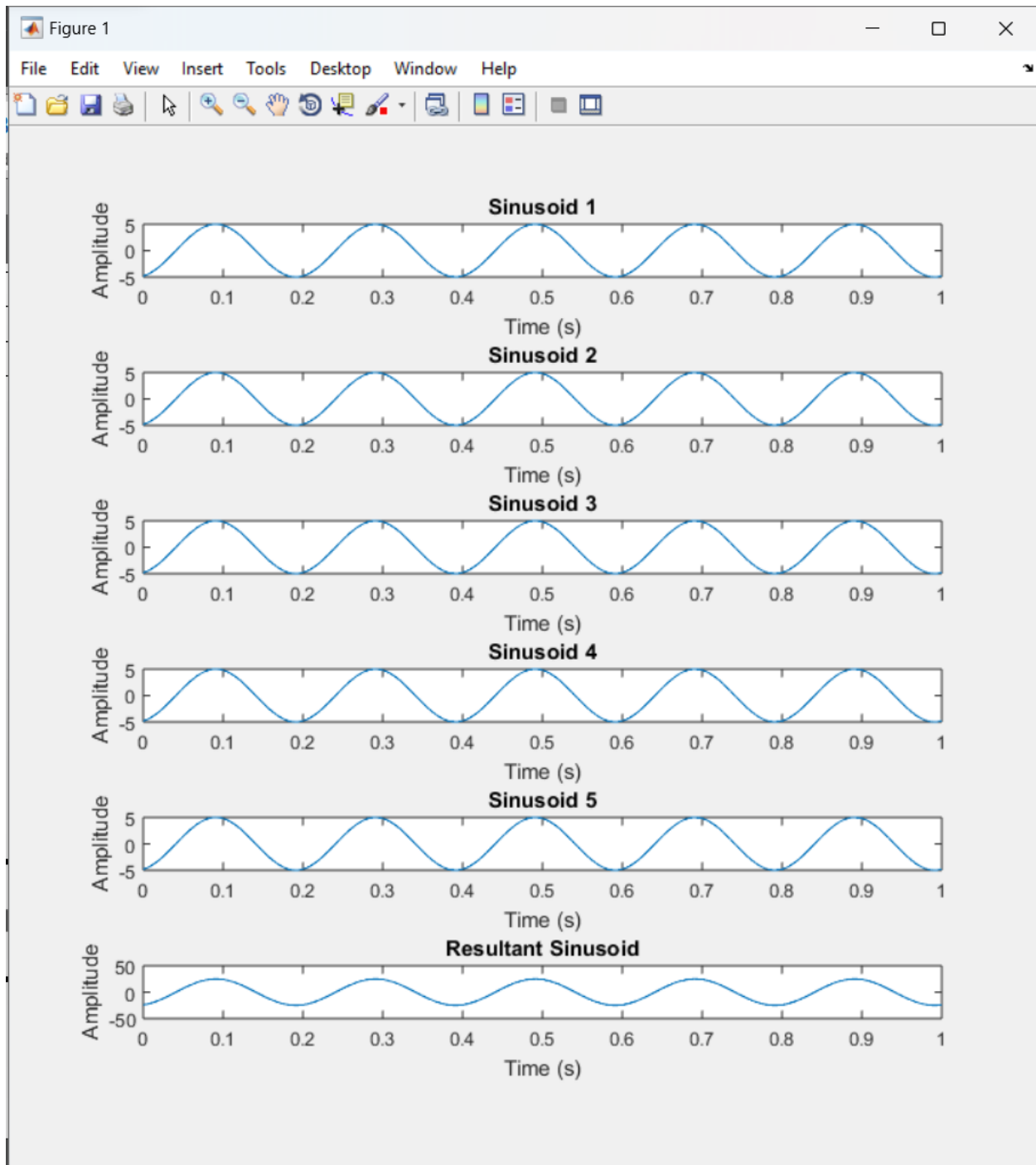
Output:



Task 7

Code:

[illegible]



Task 8

Code:

[illegible]

Output:

>> task8

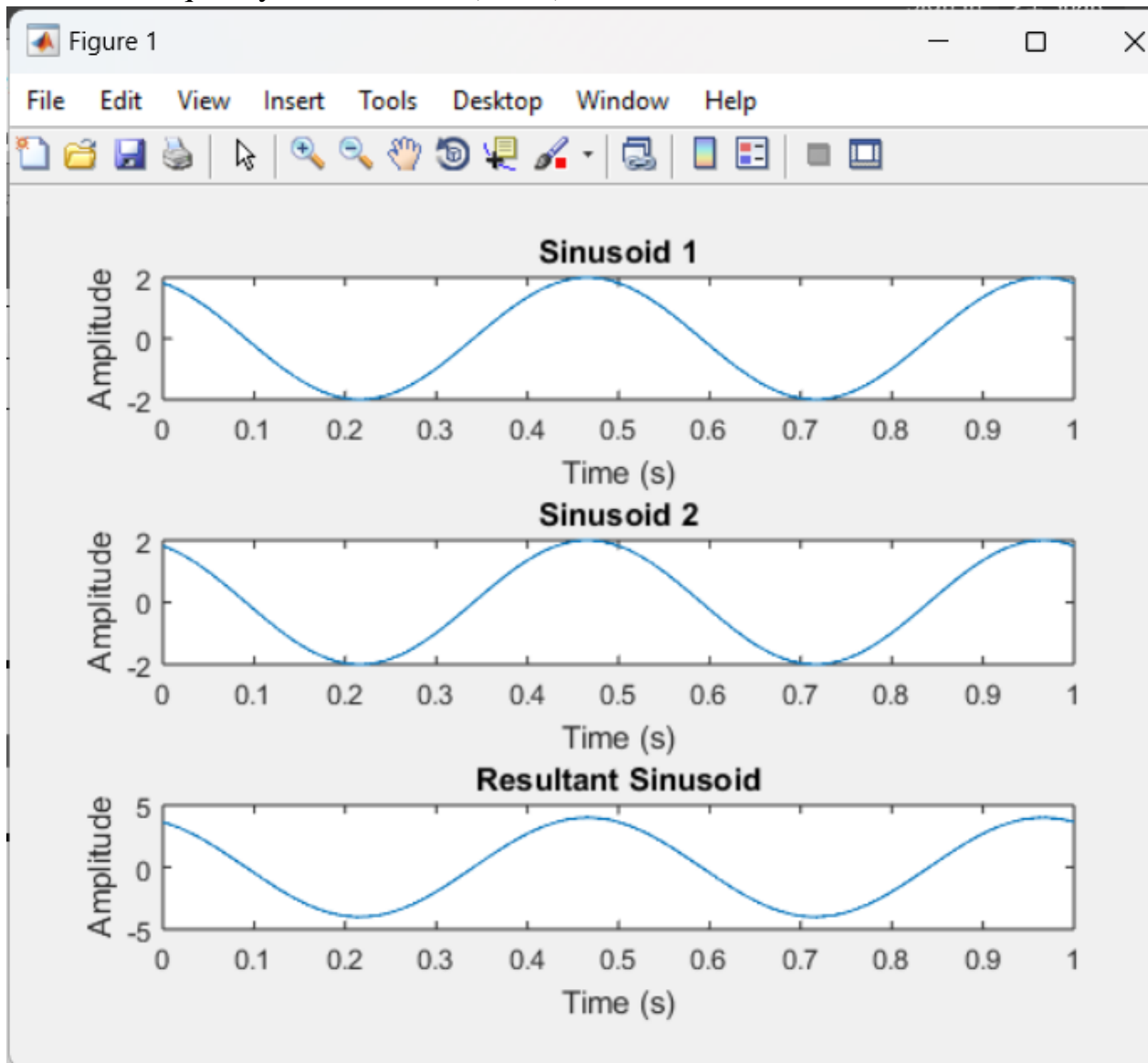
Enter the number of sinusoids: 2

Enter the amplitude of the sinusoids: 2

Enter the phase of the sinusoids (in radians): 2

Enter the frequency of sinusoid 1 (in Hz): 2

Enter the frequency of sinusoid 2 (in Hz): 2



Task 9

Code:

[illegible]

Output:

>> task9

Enter the number of sinusoids: 2

Enter the amplitude of the sinusoids: 2

Enter the frequency of the sinusoids (in Hz): 2

Enter the phase of sinusoid 1 (in radians): 2

Enter the phase of sinusoid 2 (in radians): 2

