ID2090-Final Assignment
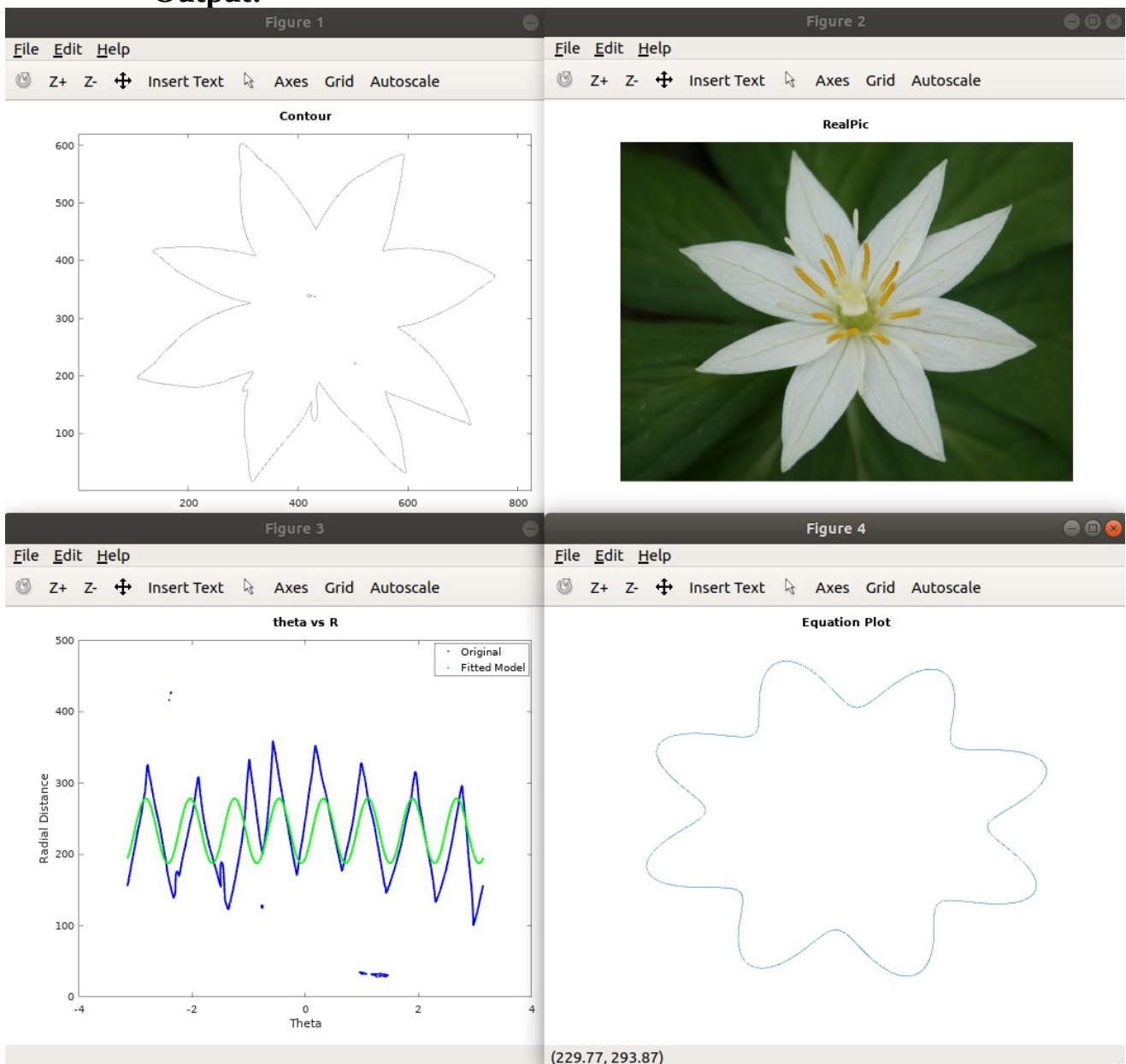# E Prakathishwar
ME19B103

Q1) **Flower 1 :**

Flower.png – Size 482.6 kB (4,82,563, bytes)
Flower1equation.txt – Size 110 bytes

Compression ratio achieved = 0.022795 %

No of Petals/ symmetry = No of peaks in Figure 3 (Theta vs R graph)
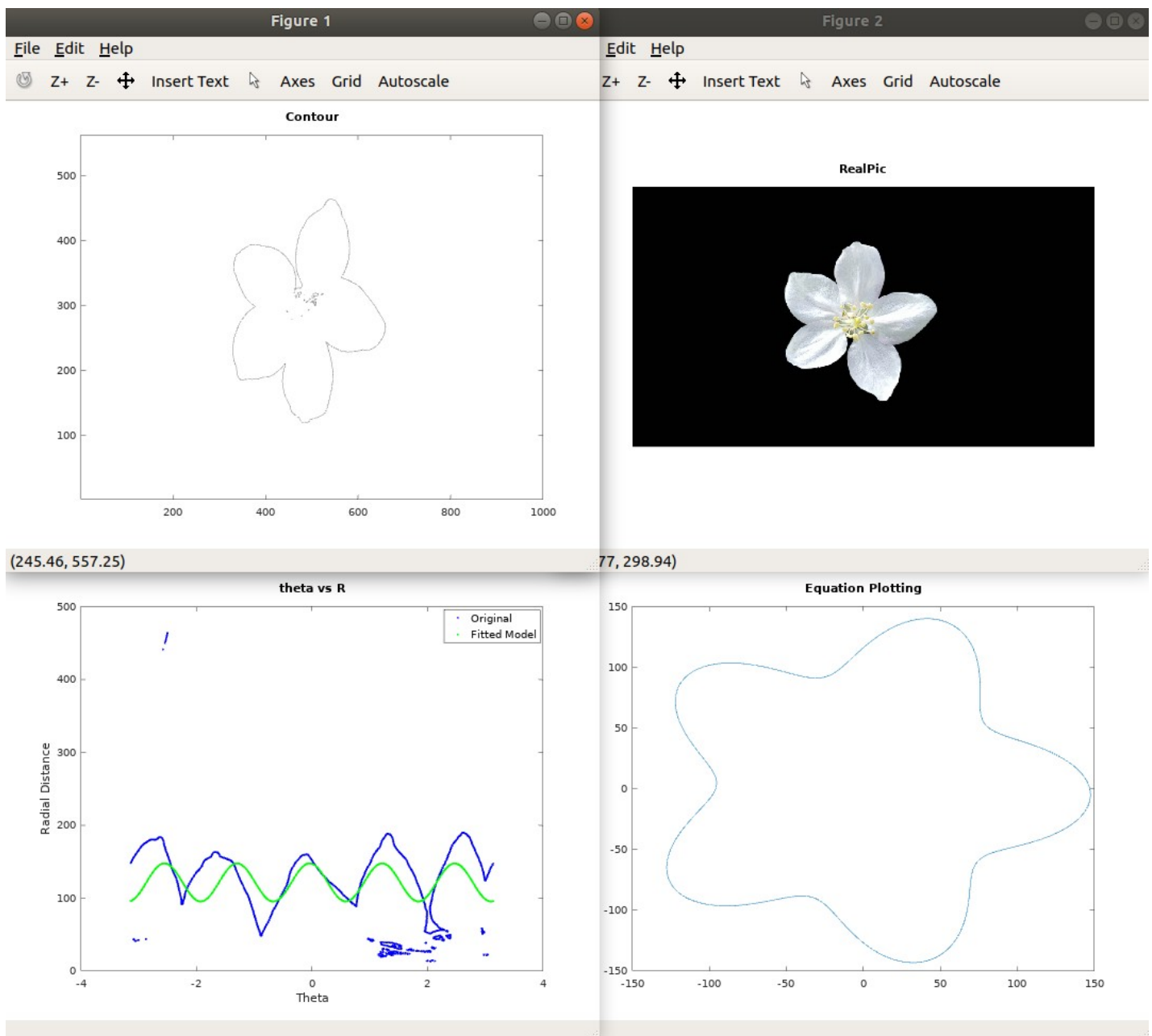
Output:

Flower 2 :

flower2.webp – Size 22.1 kB (22,106 bytes)
Flower1equation.txt – Size 112 bytes

Compression ratio achieved = 0.5066 %

No of Petals/ symmetry = No of peaks in Figure 3 (Theta vs R graph)

Output:

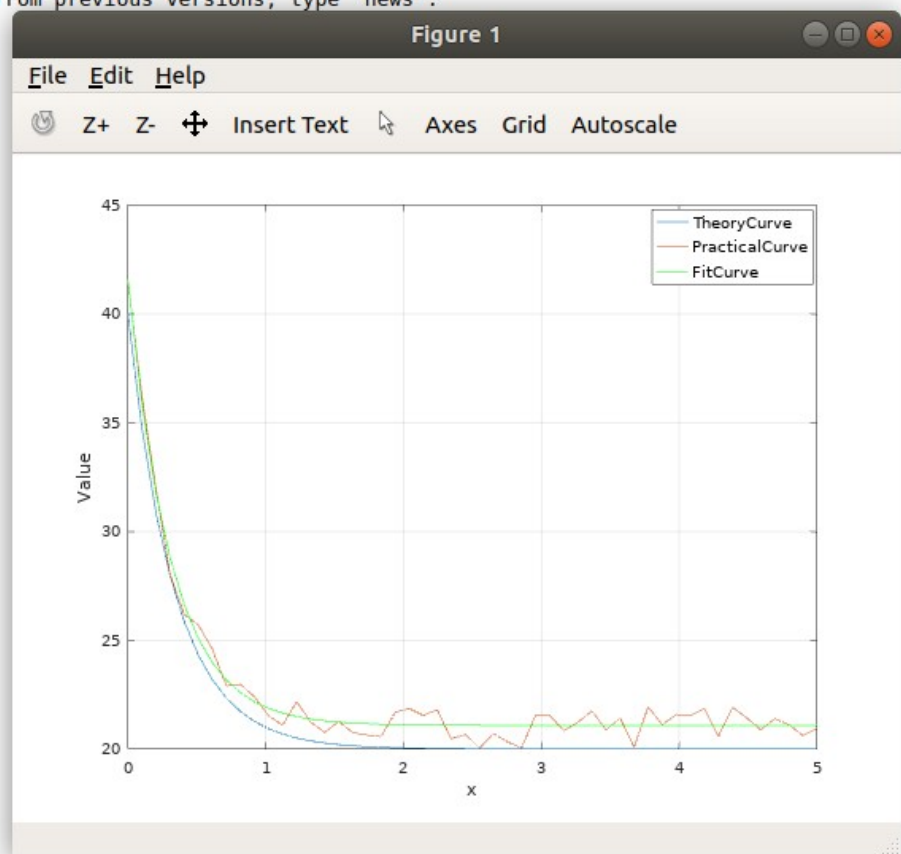Q2) Function g = A(1) + A(2)*exp(-A(3).*x)

Error 5% :

del A(1) = - 1.08412
del A(2) = - 0.51325
del A(3) = 6.19729

```
>> run Q2.m
Error =  0.050000
CoeffError =

  -1.08412  -0.51325   6.19729

>> |
```


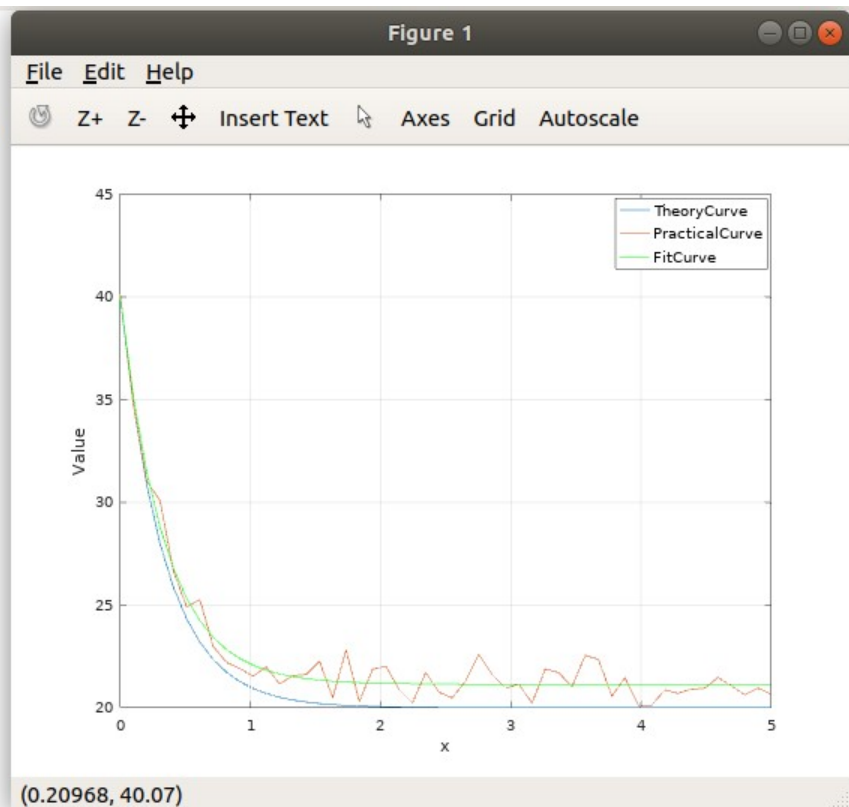## Error 7% :

del A(1) = - 1.1360
del A(2) = 1.1133
del A(3) = 5.9515

```
>> run Q2.m
Error =  0.070000
CoeffError =

  -1.1360    1.1133    5.9515

>> |
```
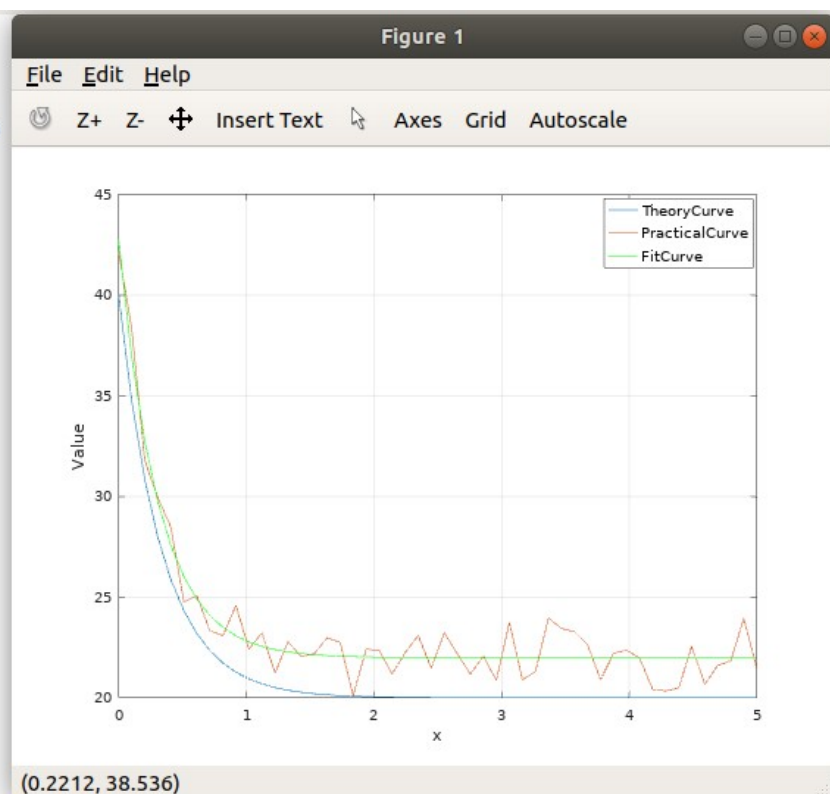

(0.20968, 40.07)

Error 10% :

del A(1) = - 1.98623
del A(2) = - 0.73044
del A(3) =   6.20935

```
>> run Q2.m
Error =  0.10000
CoeffError =

  -1.98623  -0.73044    6.20935

>> |
```


(0.2212, 38.536)

Observation:

Del of A(1) increases with Error
Del of A(2) follows no trend with Error
Del of A(3) follows no trend with Error