

# ASSIGNMENT 3

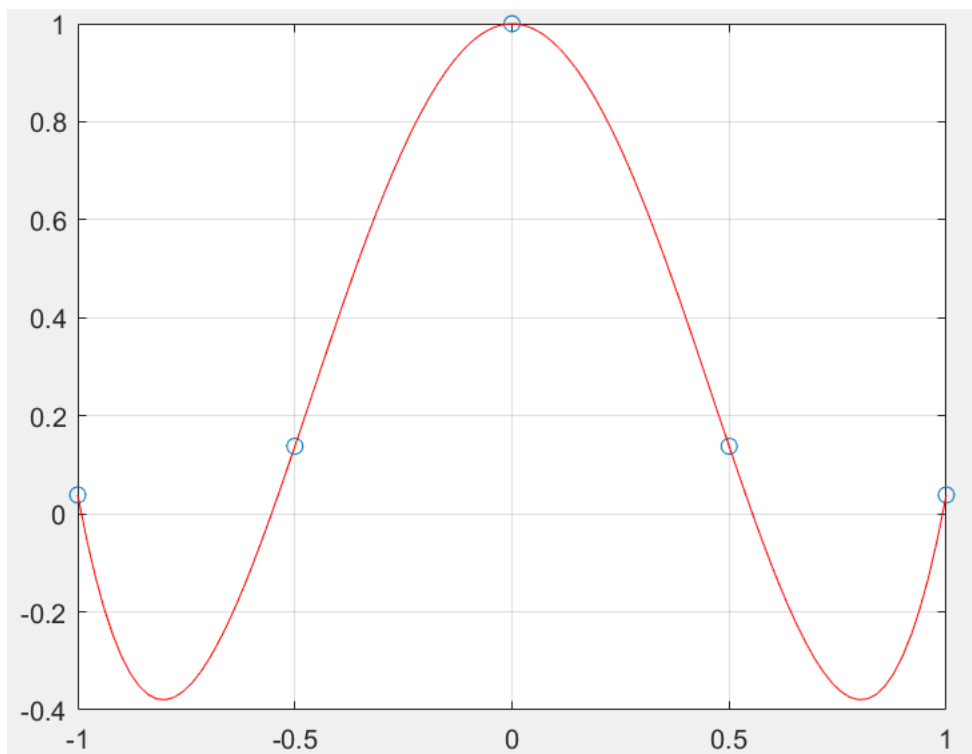
By: Ablokit Joshi  
200030  
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Ques 1:

Using Lagrange polynomials:

Ablokit Joshi Answers

```
|  
-0.8000 -0.3793  
-0.2000 0.8342  
0.2000 0.8342  
0.8000 -0.3793
```

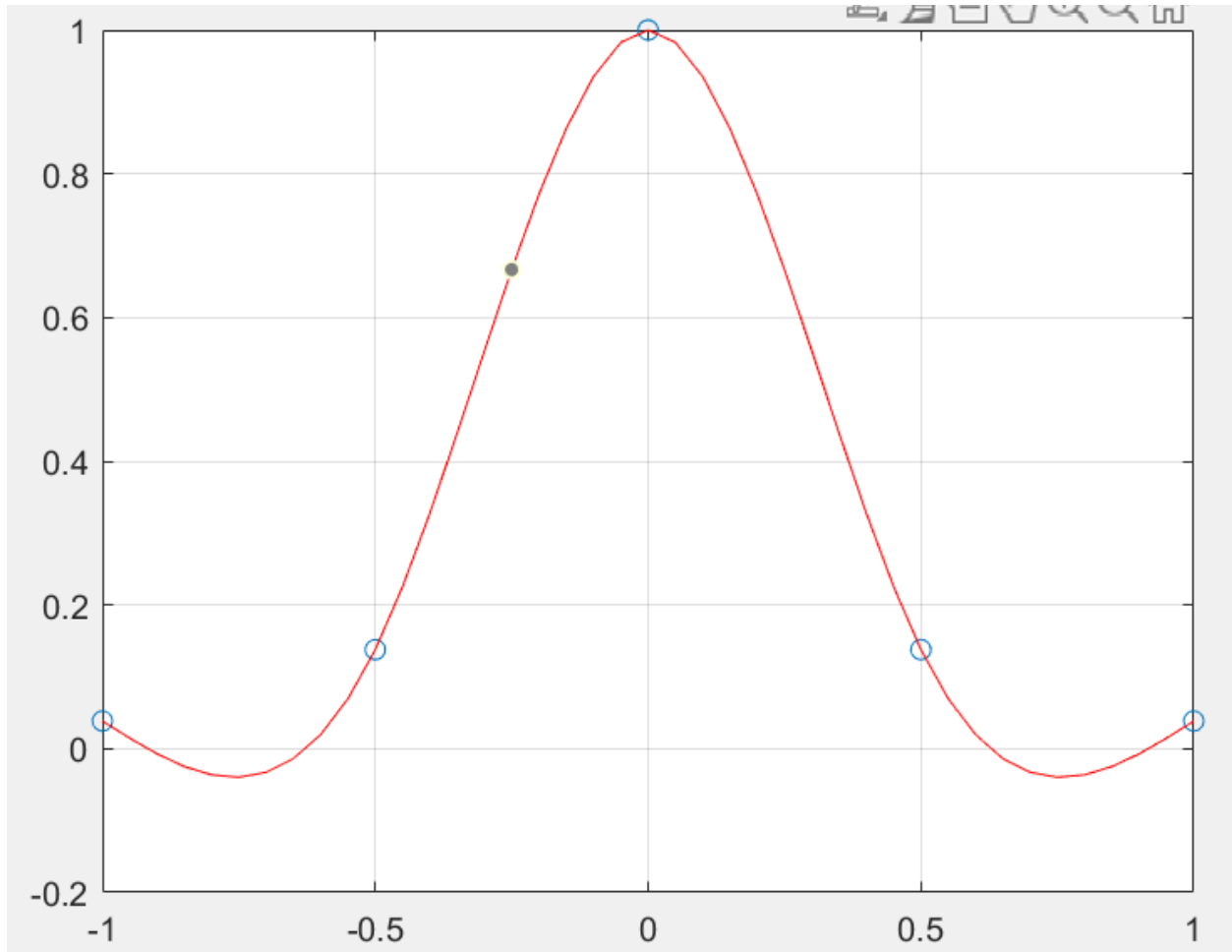


Using cubic spline:

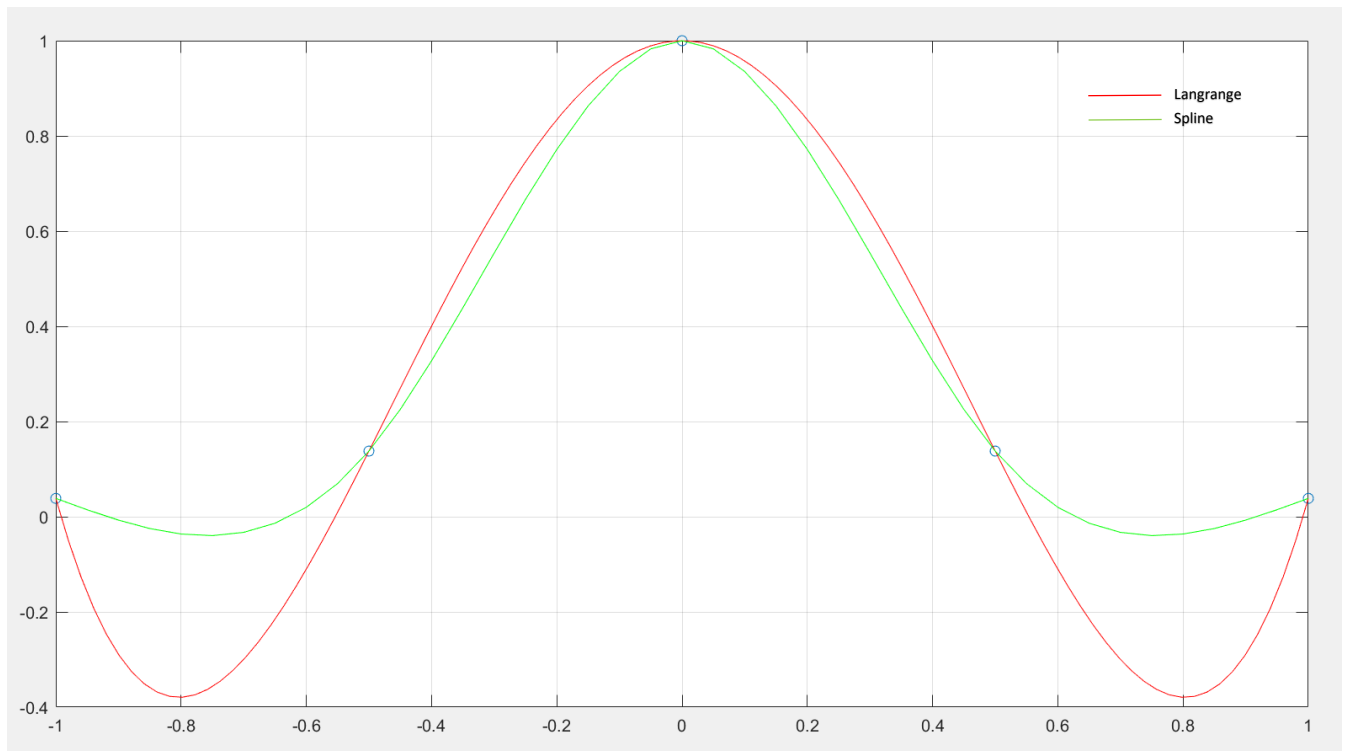
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Ablokit Joshi Answers

-0.800000	-0.036340
-0.200000	0.771569
0.200000	0.771569
0.800000	-0.036340



## Combined Graph



### Ques 2:

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Linear Coeff: -1.8596    15.3634

R\_seq = 0.761

Quadratic Coeff: 2.9170 -22.4658    40.1093

R-sq = 0.980

Cubic Coeff: 0.1550 11.1923 -36.5852    47.5965

R-sq = 0.998

Byquadratic Coeff: 1.0271    -3.7440 28.9592 -52.3834    49.0556

R-sq = 0.999

