

ESO 208 Programming Assignment-3

Problem Set-5

Question-6:

Least square fitting –

Coefficients:

0.507484

-0.546155

0.222824

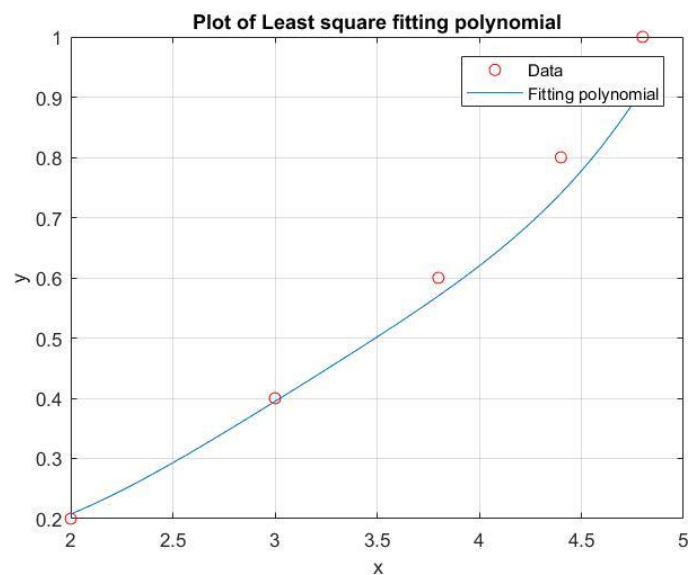
0.008553

-0.013817

0.001681

Coefficient of determination –

0.990113



Question -8:

Least square fitting –

Coefficients:

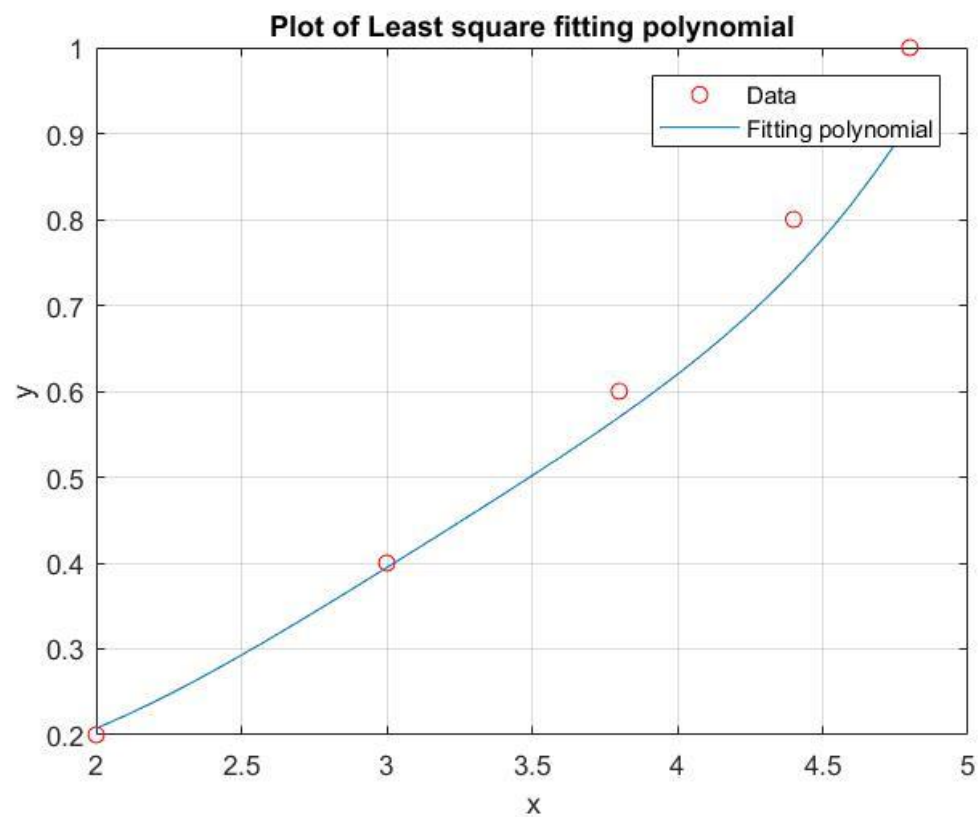
4.220000

1.898571

1.878571

Coefficient of determination -

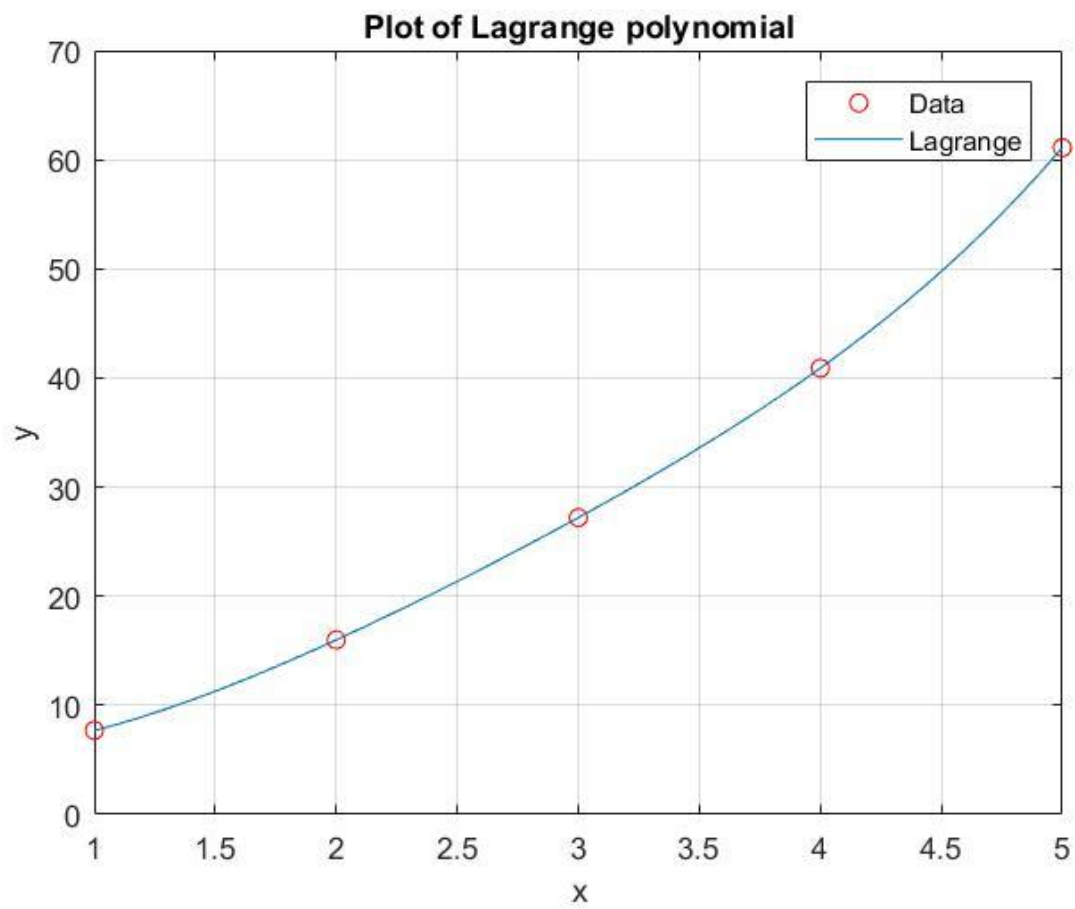
0.999120



Lagrange Interpolating Polynomial –

Interpolated values y at given x^*

2.500000 21.365625

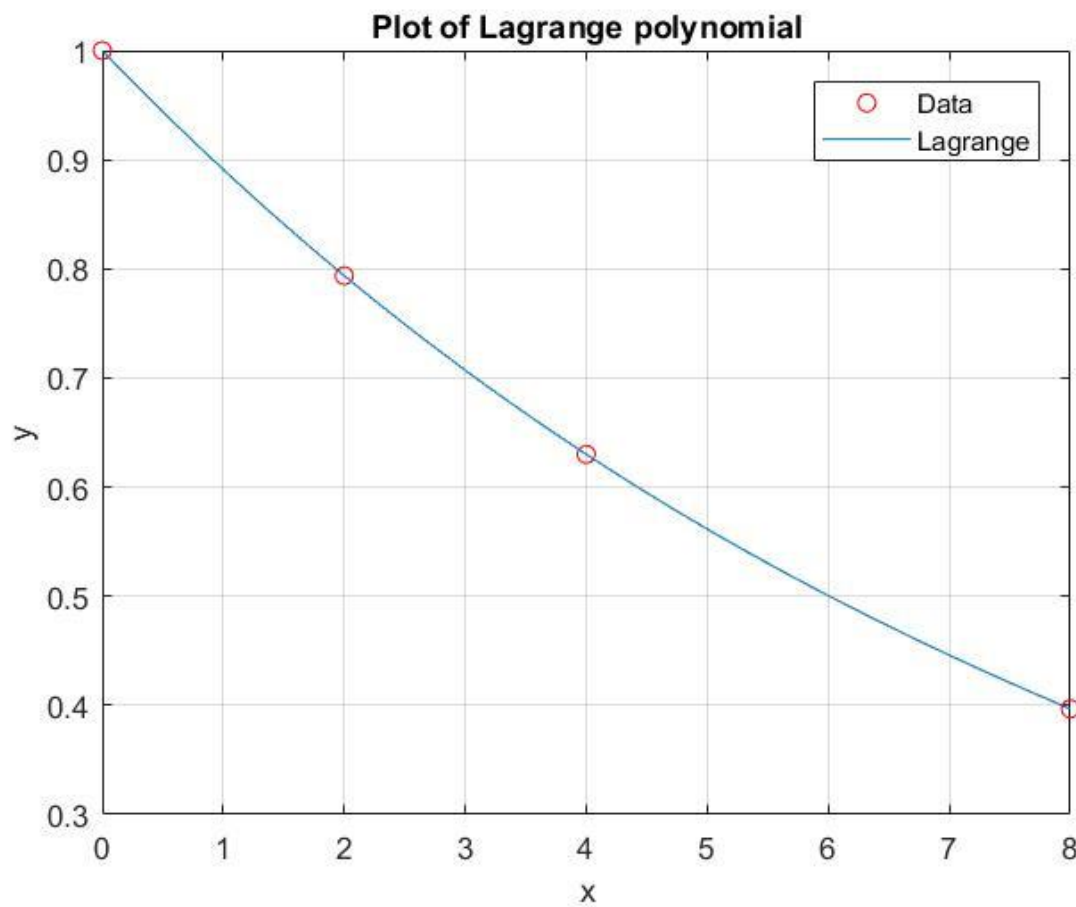


Question-10:

Lagrange polynomial –

Interpolated values y at given x^*

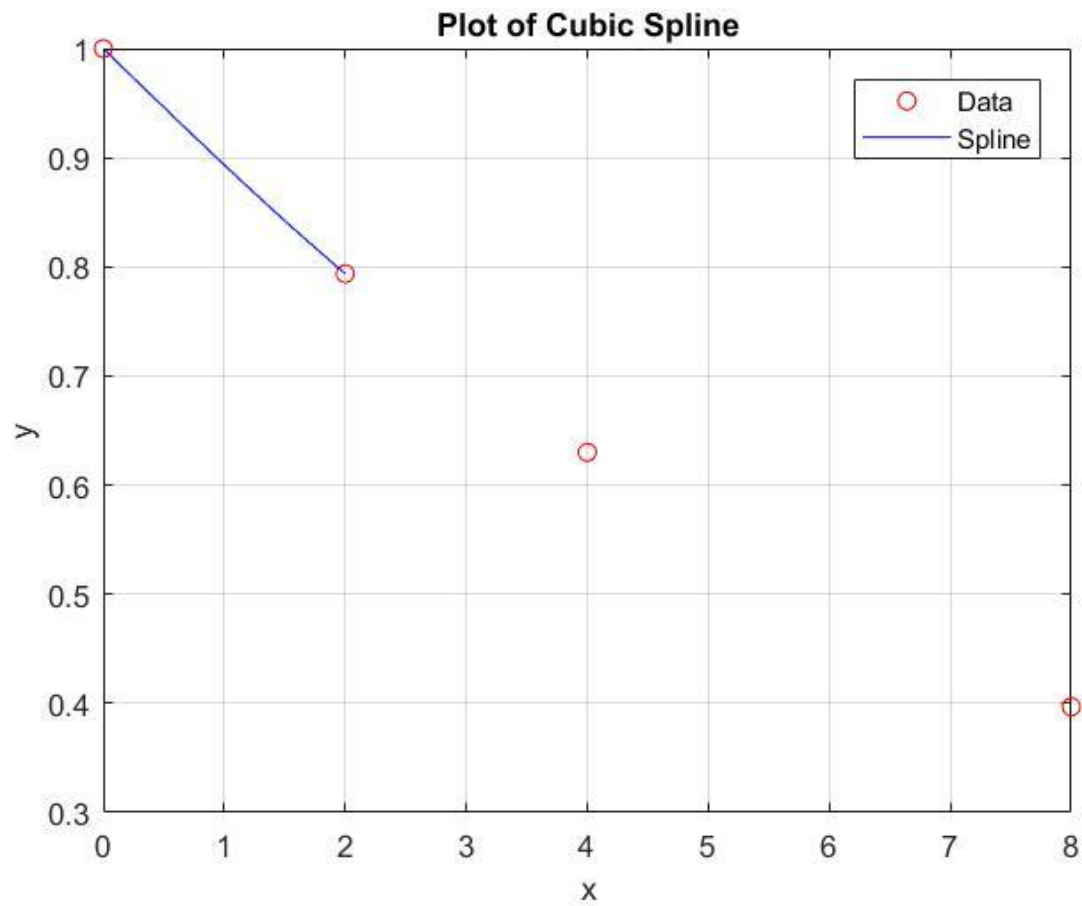
6.000000 0.500500



Natural Spline –

Interpolated values y at given x^*

6.000000 0.503891



Question -11 :

Lagrange Polynomials -

Interpolated values y at given x^*

4.000000 160.000000

