

NUMERICAL METHODS LABORATORY (MA29202) &
NUMERICAL TECHNIQUES LABORATORY (MA39110)
*Assignment-3 based on The Method of Least Squares*¹

1. Using the method of least squares, find the linear function that best fits the following data. Also, plot a curve in xy -plane.

x	1	1.5	2	2.5	3	3.5	4
y	25	31	27	28	36	35	32

2. Find the least squares polynomial of degree three that fits the following table of values. Also, plot a curve in xy -plane.

x	0.0	0.5	1.0	1.5	2.0	2.5
y	0.0	0.20	0.27	0.30	0.32	0.33