

Practicals

(2) Fit a parabola of second degree to the following data

X :	1	2	3	4	5	6	7
Y :	2.3	5.2	9.7	16.5	29.4	35.5	54.4

(3) Fit an equation of the form $y = ab^x$ to the following data

X :	2	3	4	5	6
Y :	144	172	207	249 24.9	299

(4) For the data given below, find the equation to the best fitting exponential curve of the form $y = ae^{bx}$

X :	1	2	3	4	5	6
Y :	1.6	4.5	13.8	40.2	125.0	300.0

(5) Obtain the correlation coefficient between the heights of father (X) and of the sons (Y) from the following data :

X :	65	66	67	68	69	70	71	67
Y :	67	68	64	72	70	67	70	68

and also comment on your result.