

Problem 1: Find r, Find Predicted Literacy rate and Residual

Literacy rate (%)	Income (Rs.'lac)
34	2
67	5
98	12
23	1
41	3
65	4
53	6

Result:

Correlation: $r = +0.93$

Regression:

Regression Equation:

$$y = 25.58 + 6.24x$$

Predicted Y

Income Observation	Predicted Literacy rate
1	56.79
2	100.49
3	31.82
4	44.31
5	50.55
6	63.04

Residual:

Residuals
10.21
-2.49
-8.82
-3.31
14.45
-10.04

