



Sheet #5

1- Given these data

x	5	10	15	20	25	30	35	40	45	50
y	17	24	31	33	37	37	40	40	42	41

Use least-squares regression to fit:

- a straight line
- a power equation
- a saturation-growth-rate equation
- Compute S_r and r^2 for each model

2- Use multiple linear regression to fit

x1	0	1	1	2	2	3	3	4	4
x2	0	1	2	1	2	1	2	1	2
y	15.1	17.9	12.7	25.6	20.5	35.1	29.7	45.4	40.2

Compute:

- The coefficients.
- The standard error of the estimate.
- The correlation coefficient.

