

Graph assignment

1. Plot the following data on a suitable graph with appropriate scale and axis and find the slope. Fit a linear curve to this relation and find the slope and intercept.

X	1	2	3	4	5	6	7	8	9	10
Y	25.6	50.5	65.9	86.9	121.4	138.81	151.3	184.0	185.6	213.7

2. Plot the following data and fit a suitable curve to this data.

-5	-4	-3	-2	-1	0	1	2	3	4	5
126.0	99.3	78.8	63.9	54.1	50.2	53.3	62.5	78.6	98.5	126.6

3. Plot the following data on a suitable graph

Frequency (Hz)	10	100	1K	10K	100K	1M	10M	100M	1G	10G
Gain	1	0.995	0.707	0.099	0.01	1e-3	1e-4	1e-5	1e-6	1e-7

4. Plot the following function on a graph paper choosing the range of x suitably

a. $f(x) = 2x^3 - 3x^2 - 12x + 1$

b. $f(x) = \frac{4x+3}{x^2}$