

MATHEMATICS

1. Given the data below

M(kg)	x(m)
0.100	0.040
0.200	0.084
0.300	0.130
0.400	0.174
0.500	0.220
0.600	0.264

- (a) Plot a graph of M against x
(b) Find the slope, S, of the graph

2.

x(m)	t(s)
0.300	25.00
0.400	27.00
0.500	29.90
0.600	32.13
0.700	32.25
0.800	36.31

Where **t** = **time** for 2- oscillations.

- a) Copy and complete the table including values of T (time for one oscillation) and T^2 .
b) Plot a graph of T^2 against x
c) Find the slope, K, of the graph