

# Assignment6 - CL249

## Author :

- Sarthak Mishra
- 22b0432 | Chemical Eng. | B.Tech | 3rd year
- Assignment 6
- CL249
- Q1 :

Extracted Data		
	time	position
0	0.0	0.0
1	1.0	2.5
2	2.0	9.8
3	3.0	22.3
4	4.0	40.0
5	5.0	62.5

	time	velocity
0	0.0	2.5
1	1.0	4.9
2	2.0	9.9
3	3.0	15.1
4	4.0	20.1
5	5.0	22.5

Total distance traveled by the train: 62.5

- Q2:

	x	f(x)	f''(x)
0	0.0	1.0	2.857143
1	0.3	1.3	2.857143
2	0.7	2.1	-1.777778
3	1.2	2.7	0.333333
4	1.5	3.1	1.166667
5	2.0	4.0	1.166667

