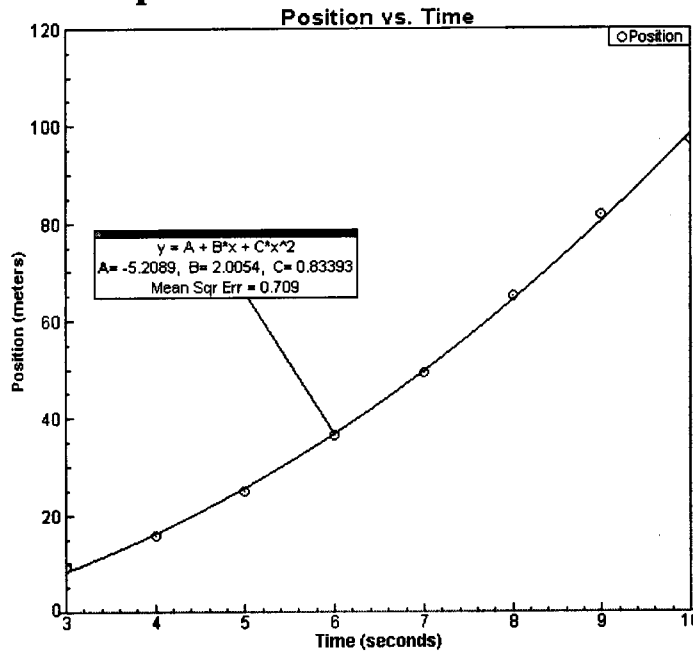


Using Graphical Analysis to process your data:

Use this procedure to determine the constant acceleration from your position-time data.

1. Type your time data in the X column of the Data Table.
2. Type your position data in the Y column of the Data Table.
3. Click on the Graph Window to select it.
4. Pull down the Graph menu and de-select Connecting Lines.
5. Pull down the Analyze menu and select Auto Fit.
6. Select Quadratic in the Stock Functions list and click OK.
7. If the curve fits your data satisfactorily, click **OK - Keep Fit** in the lower right hand corner of the window.
8. Pull down the Data menu and select Column Options.
9. Select X and click OK.
10. Type "Time" for the new name and type "seconds" for the new units.
11. Pull down the Data menu and select Column Options.
12. Select Y and click OK.
13. Type "Position" for the new name and type "meters" for the new units. Click OK.
14. Make sure the graph window is selected by clicking on it. Pull down the Graph menu and select Copy Window.
15. Open a Word document and paste the graph into the document.
16. Select the Data Table Window by clicking on it. Pull down the Edit menu and select Copy Window.
17. Paste the window into your Word document.
18. Save your Word document.

Examples:



Row Num	Time (seconds)	Position (meters)
1	3.00000	10.00000
2	4.00000	16.00000
3	5.00000	25.00000
4	6.00000	37.00000
5	7.00000	52.00000
6	8.00000	70.00000
7	9.00000	91.00000
8	10.00000	115.00000
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		