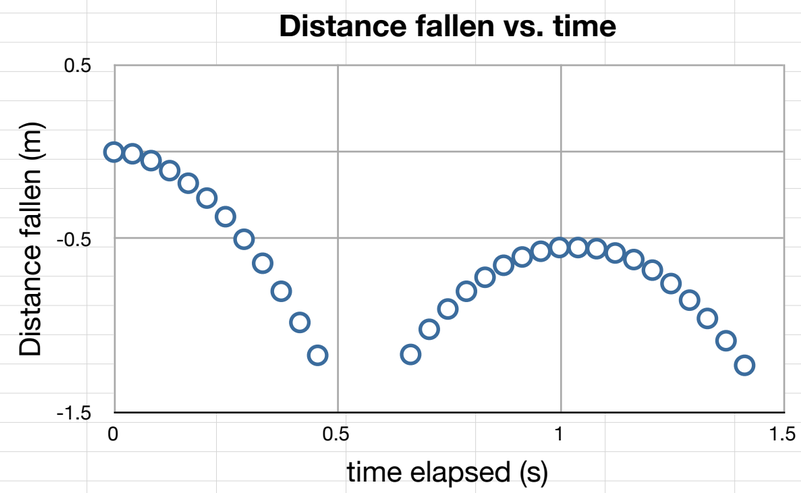
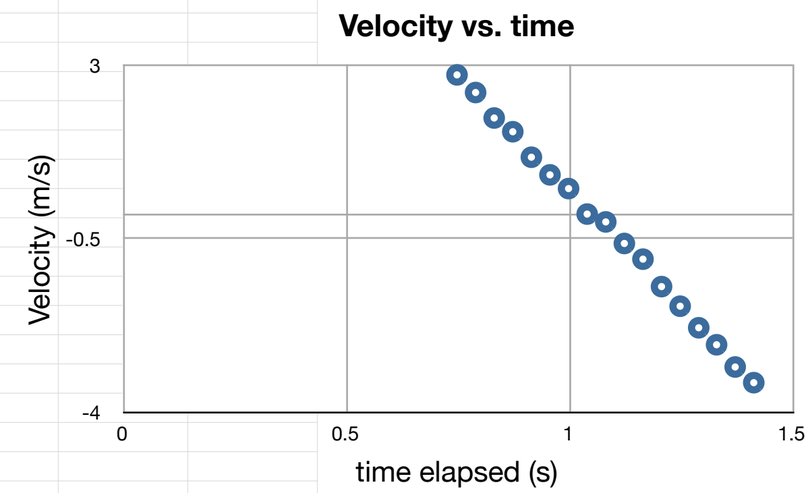
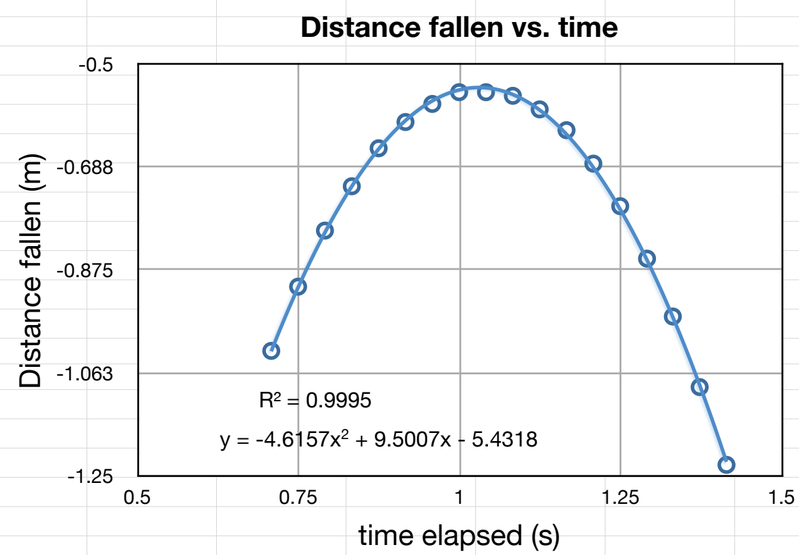
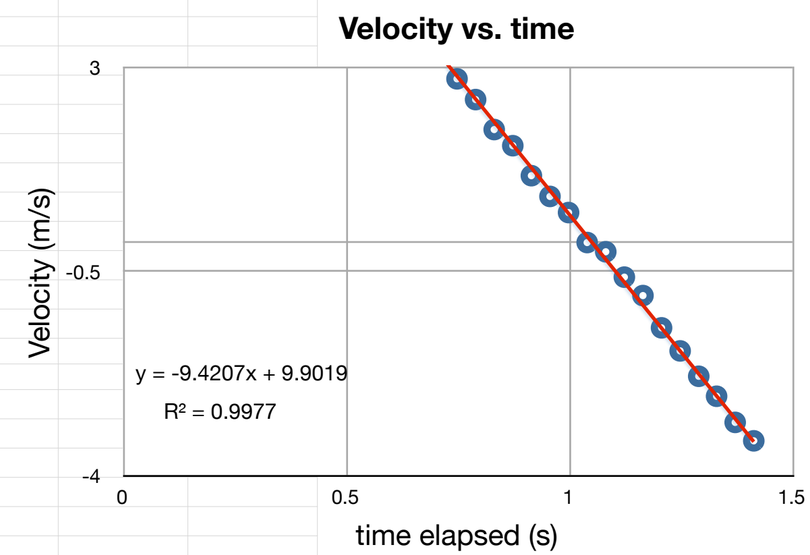
t (s)	dt (s)	y (m)	avg. v (m/s)
2.038	0	-0.00164638	
2.080	0.04166667	-0.01152442	-0.237073056
2.122	0.08333333	-0.05103662	-0.948292784
2.163	0.125	-0.10865856	-1.382926494
2.205	0.16666667	-0.1810976	-1.738536894
2.247	0.20833333	-0.26670736	-2.054634333
2.288	0.25	-0.37371954	-2.568292379
2.330	0.29166667	-0.50378048	-3.121462584
2.372	0.33333333	-0.64207315	-3.319024086
2.413	0.375	-0.80341464	-3.872195721
2.455	0.41666667	-0.98286581	-4.306828022
2.495	0.45666667	-1.17219496	-4.733228683
2.703	0.665	-1.167256	0.0237070084
2.745	0.70666667	-1.02237797	3.4770727157
2.787	0.74833333	-0.90548778	2.8053646087
2.828	0.79	-0.80341464	2.4497551918
2.870	0.83166667	-0.72274387	1.9360985756
2.912	0.87333333	-0.65359753	1.659512043
2.953	0.915	-0.60585362	1.1458539963
2.995	0.95666667	-0.57292682	0.7902431488
3.037	0.99833333	-0.55152434	0.5136594772
3.078	1.04	-0.55152434	0
3.120	1.08166667	-0.5581097	-0.15804863
3.162	1.12333333	-0.58280486	-0.592683792
3.203	1.165	-0.62067068	-0.908779621
3.245	1.20666667	-0.68158531	-1.461951256
3.287	1.24833333	-0.75896341	-1.857074261
3.328	1.29	-0.85445112	-2.291705132
3.368	1.33	-0.95981705	-2.6341483
3.410	1.37166667	-1.08823168	-3.081951141
3.452	1.41333333	-1.22981691	-3.39804554

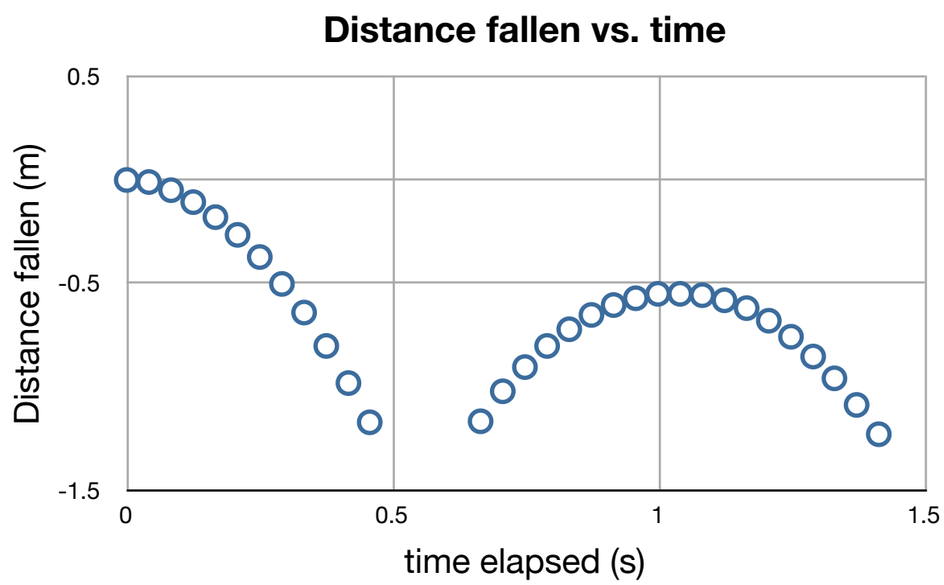
0.7066666667	-1.02237797	3.4770727157
0.7483333333	-0.90548778	2.8053646087
0.79	-0.80341464	2.4497551918
0.8316666667	-0.72274387	1.9360985756
0.8733333333	-0.65359753	1.659512043
0.915	-0.60585362	1.1458539963
0.9566666667	-0.57292682	0.7902431488
0.9983333333	-0.55152434	0.5136594772
1.04	-0.55152434	0
1.0816666667	-0.5581097	-0.15804863
1.1233333333	-0.58280486	-0.592683792
1.165	-0.62067068	-0.908779621
1.2066666667	-0.68158531	-1.461951256
1.2483333333	-0.75896341	-1.857074261
1.29	-0.85445112	-2.291705132
1.33	-0.95981705	-2.6341483
1.3716666667	-1.08823168	-3.081951141
1.4133333333	-1.22981691	-3.39804554

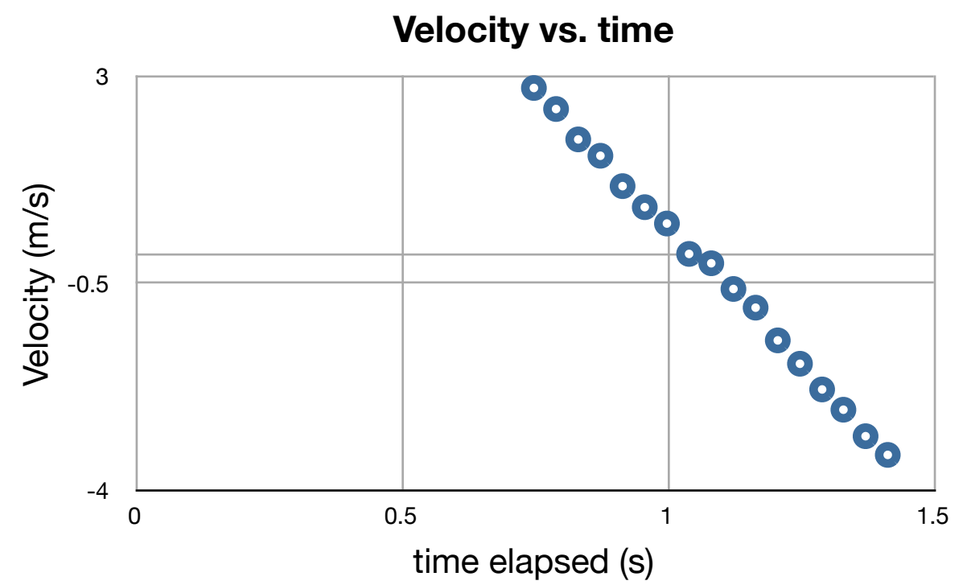


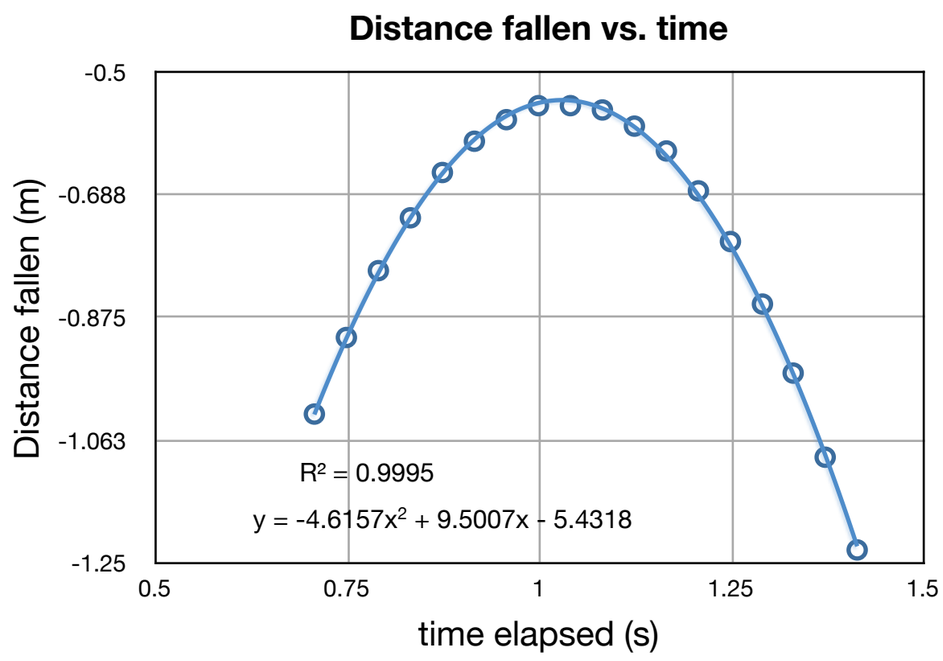


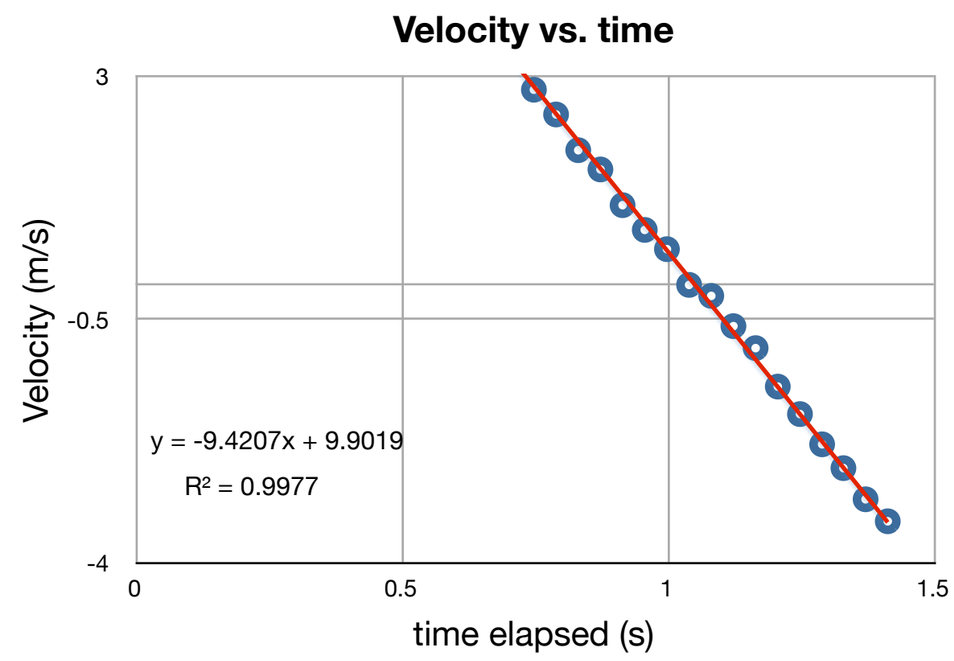





Distance fallen vs. time
Distance fallen (m)
0.5
-0.5
-1.5
0
0.5
1
1.5
time elapsed (s)


Velocity vs. time
Velocity (m/s)
3
-0.5
-4
0
0.5
1
1.5
time elapsed (s)


Distance fallen vs. time
Distance fallen (m)
-0.5
-0.688
-0.875
-1.063
-1.25
0.5
0.75
1
1.25
1.5
time elapsed (s)
R² = 0.9995
y = -4.6157x² + 9.5007x - 5.4318


Velocity vs. time
Velocity (m/s)
3
-0.5
-4
0
0.5
1
1.5
time elapsed (s)
y = -9.4207x + 9.9019
R² = 0.9977