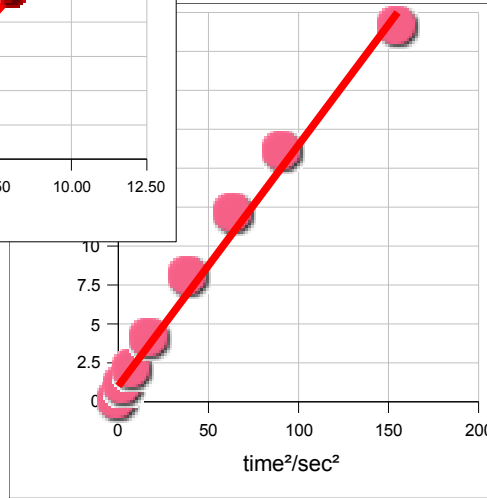
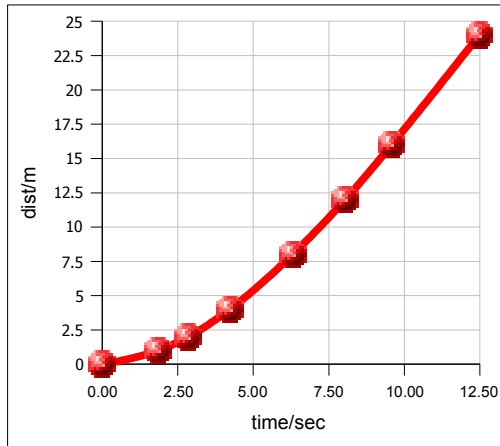


ball roll acc

time/sec	dist/m
0.00	0
1.85	1
2.84	2
4.22	4
6.30	8
8.04	12
9.58	16
12.48	24

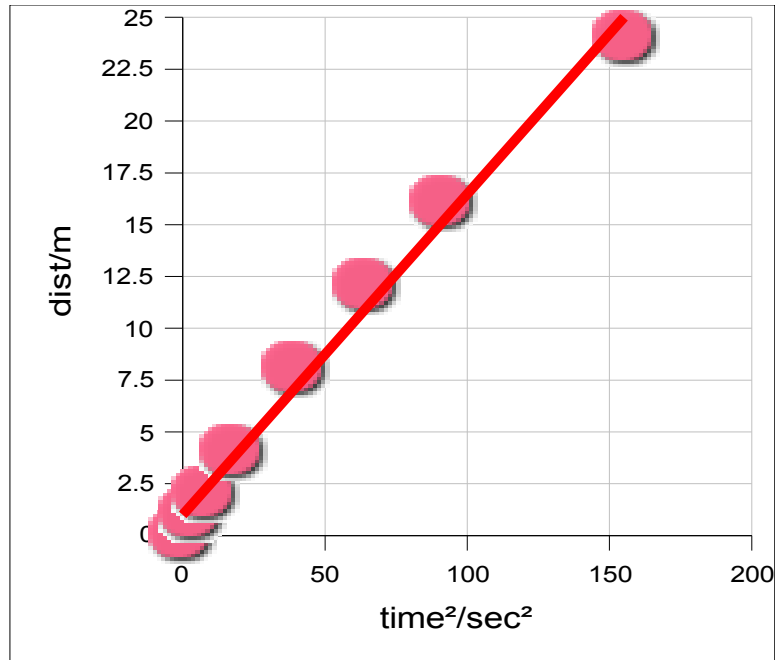
time ² /sec ²	dist/cm
0	0
3.42	1
8.07	2
17.81	4
39.69	8
64.64	12
91.78	16
155.75	24



slope 0.1547 =SLOPE(B12:B19;A12:A19)
 intercept 1.0026 =INTERCEPT(B12:B19;A12:A19)

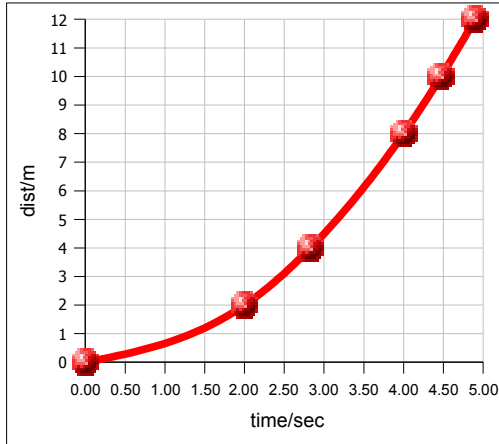
time/sec	dist/m
-12.00	22.28
-11.00	18.72
-10.00	15.47
-9.00	12.53
-8.00	9.9
-7.00	7.58
-6.00	5.57
-5.00	3.87
-4.00	2.48
-3.00	1.39
-2.00	0.62
-1.00	0.15
0.00	0
1.00	0.15
2.00	0.62
3.00	1.39
4.00	2.48
5.00	3.87
6.00	5.57
7.00	7.58
8.00	9.9
9.00	12.53
10.00	15.47
11.00	18.72
12.00	22.28

=0.1547*A25^2

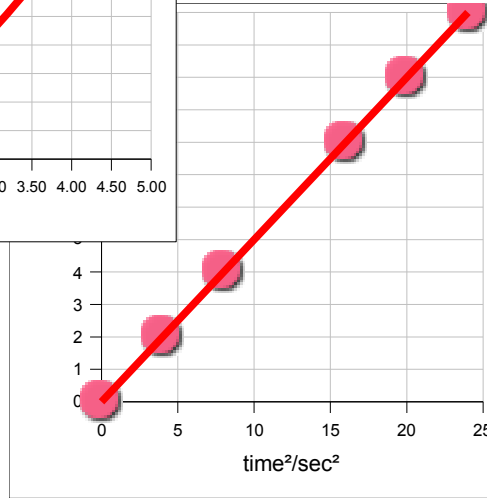


hw

time/sec	dist/m
0.00	0
2.00	2
2.83	4
4.00	8
4.47	10
4.90	12



time ² /sec ²	dist/cm
0	0
4	2
8.01	4
16	8
19.98	10
24.01	12



slope	0.5001	=SLOPE(B12:B19;A12:A19)
intercept	-0.0009	=INTERCEPT(B12:B19;A12:A19)

time/sec	dist/m
-12.00	72
-11.00	60.5
-10.00	50
-9.00	40.5
-8.00	32
-7.00	24.5
-6.00	18
-5.00	12.5
-4.00	8
-3.00	4.5
-2.00	2
-1.00	0.5
0.00	0
1.00	0.5
2.00	2
3.00	4.5
4.00	8
5.00	12.5
6.00	18
7.00	24.5
8.00	32
9.00	40.5
10.00	50
11.00	60.5
12.00	72

How far in 24 seconds? 288.04 meters
 How long to travel 48 m? 9.8 seconds

