Time (t)2	Initial position (Xi)	Time Squared (t^2)	Column1
0	0	0	
1.35	20	1.8225	
1.96	40	3.8416	
2.5	60	6.25	
2.85	80	8.1225	

in sec   in cm

(number below x2=a)

0.328336889	0.416249019	slope, intercept
0.057234923	0.284010856	slope uncertainty, uncertainty in intercept
0.91645592	0.374544893	correlation coefficient, extra
32.90918715	3	extra, extra
4.616628368	0.420851632	extra, extra

slope = 0.33   0.06
intercept = 0.42   0.28
Acceleration using   a=.64 m/s^2 +/-
80=1/2at^2--->   .06
          ^ w/ sig figs

x versus t

$y = 8.6801x^2 + 2.9681x + 0.0752$
$R^2 = 0.9989$

$y = 9.6547x + 1.3106$
$R^2 = 0.9979$

Position (x)

Initial position (Xi)2   Initial position (Xi)2   •••••• Poly. (Initial position (Xi)2)   ------ Linear (Initial position (Xi)2)