



4. a) For the expirement, a ball was dropped from ten seperate heights, starting at 10 cm and ending at 100 cm. The height ofter one bounce was rewrded along with the height at which it was dropped at into a table. drop height 10 20 30 40 50 60 70 80 90 100 bounce height 2 5 8 12 15 18 22 26 30 34 squared error: 0.0015 0.0021 0.0027 0.0008 0.0012 0.0017 0.0003 0.0001 0.0011 0.0033 MATLAB I couldn't figure ofit how to do the quadratic model so I only plotted the linear model, and thus It fit the best. The softness and weight of the ball couldive impacted the height it bounced to,



