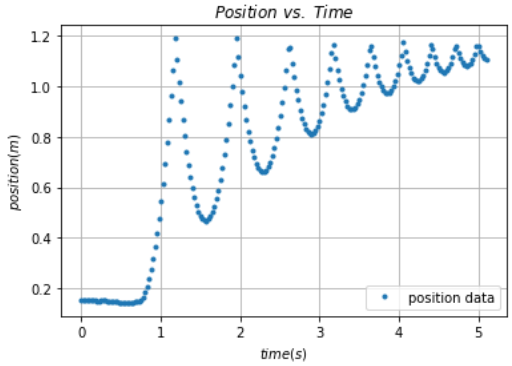
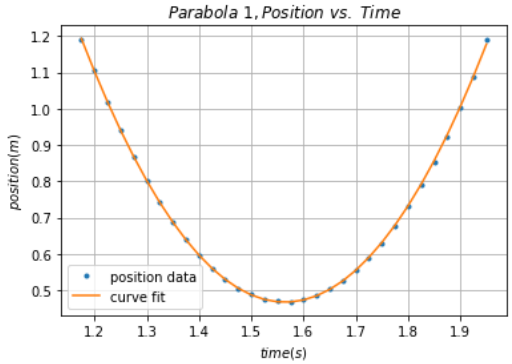
Aaron Escobar

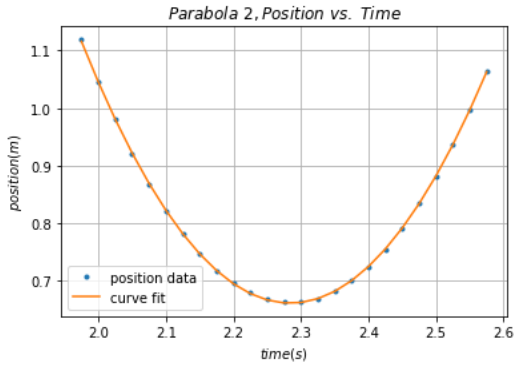
Homework 4 Problem 3



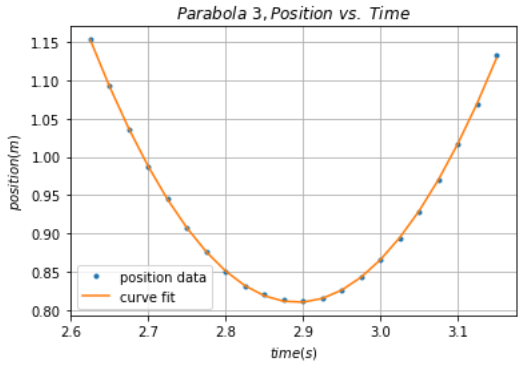
This is the graph of the data points given. In this experiment it shows the position of a ball bouncing versus time. As the time goes on you can see the parabolas get smaller due to the position.



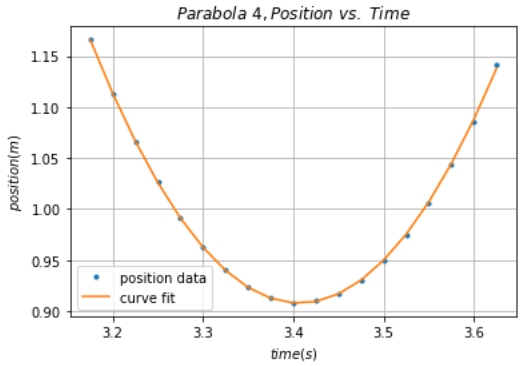
This is the first parabola from the data. It's g=9.58



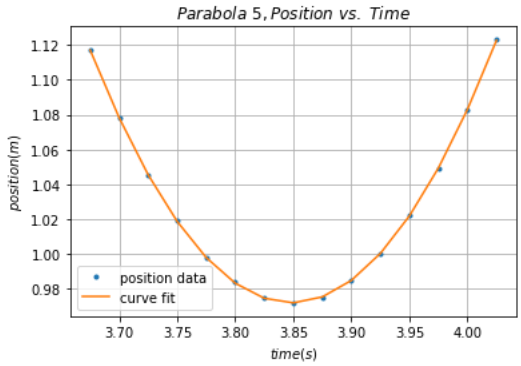
This is the 2nd parabola from the data. It's g=9.51



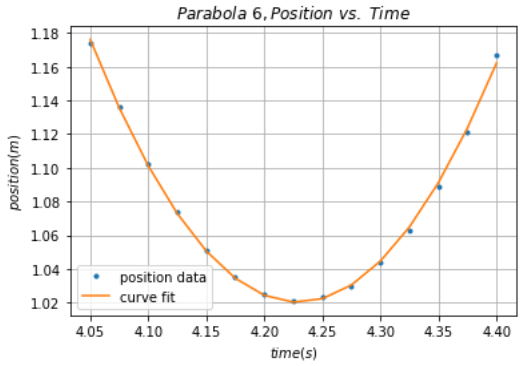
This is the 3rd parabola from the data. It's g=9.58



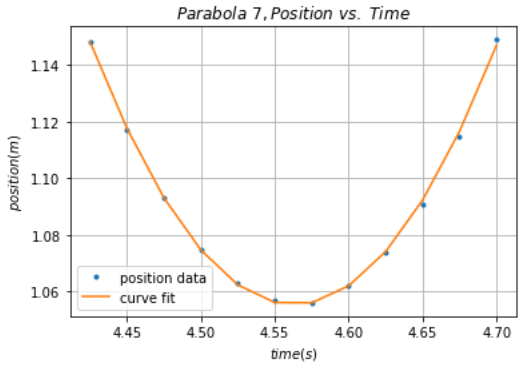
This is the 4th parabola from the data. It's g=9.64



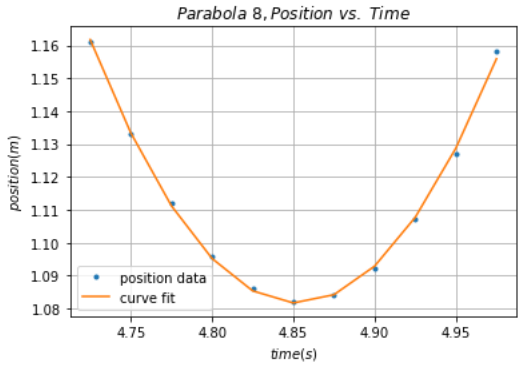
This is the 5th parabola from the data. It's g=9.65



This is the 6th parabola from the data. It's g=9.72



This is the 7th parabola from the data. It's g=9.76



This is the last parabola from the data. It's g=9.88
The average g constant came out to be 9.66 m/s2