Modeling Usain Bolt 2009 100 m dash world record

Your Cool Name goes here!

Homework #1b, Math 323
Eastern Oregon University
Fall 2016
with
Dr. Tovar

November 11, 2016

Figure 1: Here's the cool Figure.

Abstract

Insert two to five sentences overviewing what you've done and what you're trying to do. Hint: make sure you mention that you're calculating the initial acceleration.

1 Introduction

Expand the few sentences overviewing Bolt's accomplishment that you have as follows:

1. create a brief history of math modeling (include references).
2. create a brief history/background on the race (include references).
3. Write a paragraph that includes a sentence overviewing each of the subsequent sections.

2 A Proposed Model

Expand information about your the model here.

3 Analysis

Show how you calculate the initial acceleration. add sentences as appropriate

4 Comparison with Race Data

A couple of sentences, then make a table duplicating the data of the web site. Here's a start:

Segment (m)	Time (s)	Velocity (m/s)
0-10	1.85	5.41
10-20	1.02	9.80

Make another table with the corresponding Velocity vs. TIME table (I've done the first two data points for you, complete the rest).

Time (s)	Velocity (m/s)
0	0
0.925	5.405

Now, plot data against your model.

5 Discussion/Conclusion

compare the initial acceleration you got here, you got with the previous model, and that which the web site got. Add several sentences putting the result in context. Discuss possible future work/how can the model be improved.

6 References

add a reference section. There should be at least 7 references - wikipedia is OK, here.

7 Appendix

add a word count for miniproj 1a, 1b, and 1c.
Add any other information as necessary.