Principles of Data Mining: HW 00
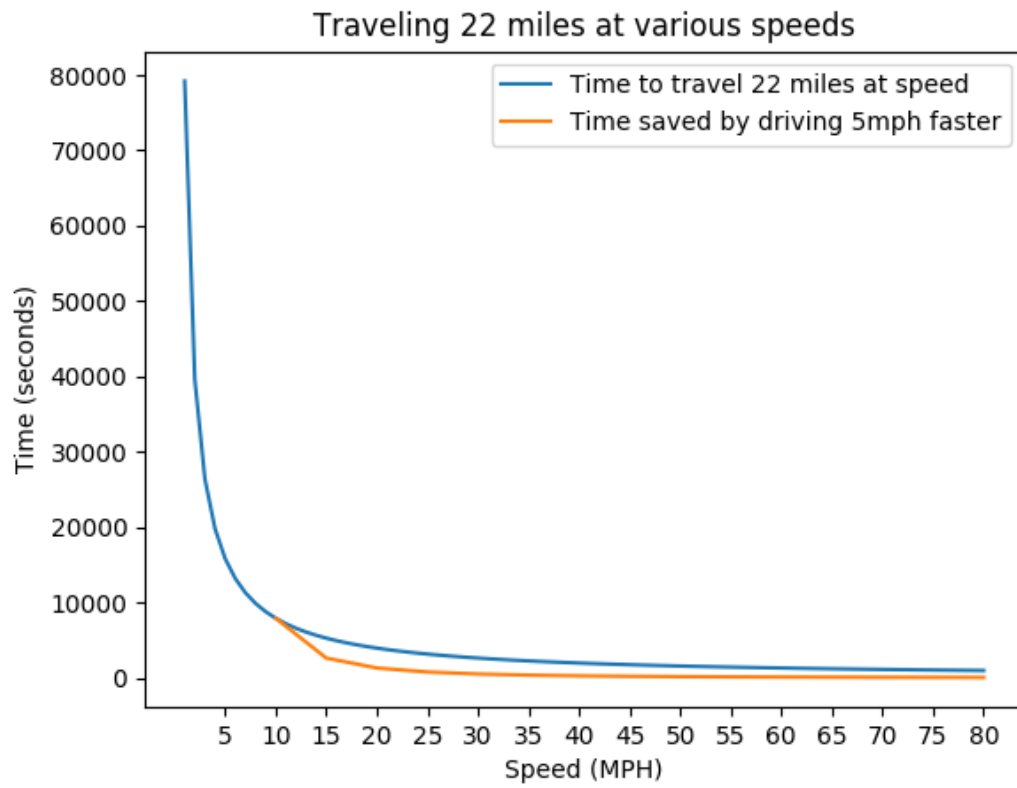
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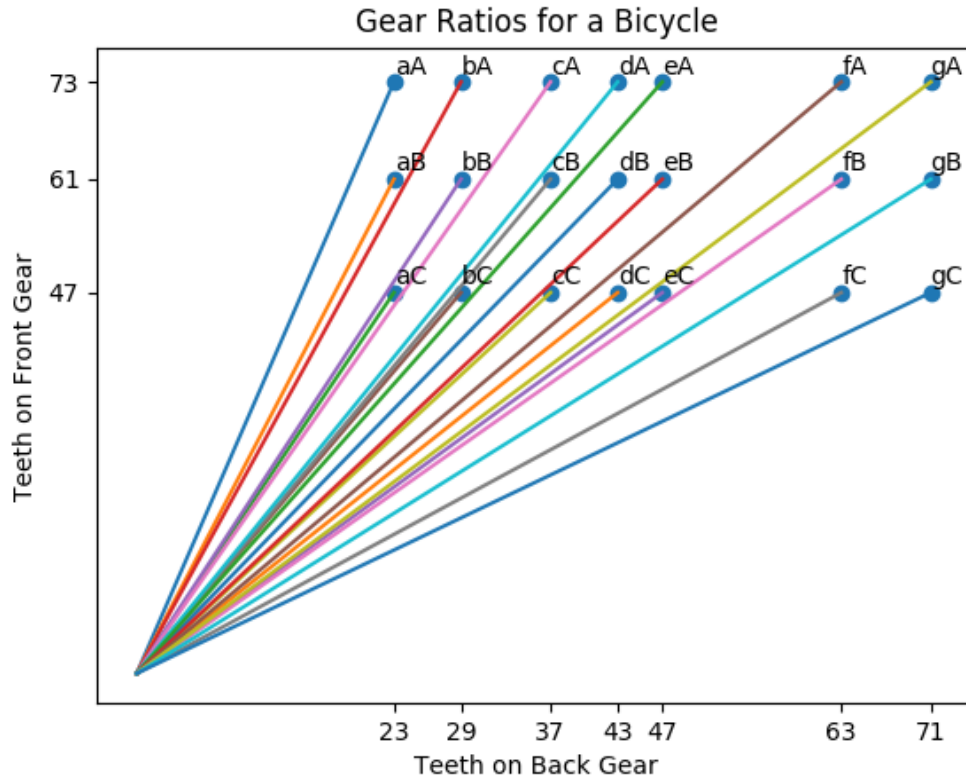
Task 1

Time to Travel 22 miles at various speeds

Task 2

Traveling 22 miles at various speeds

Task 3

Gear Ratios for a Bicycle
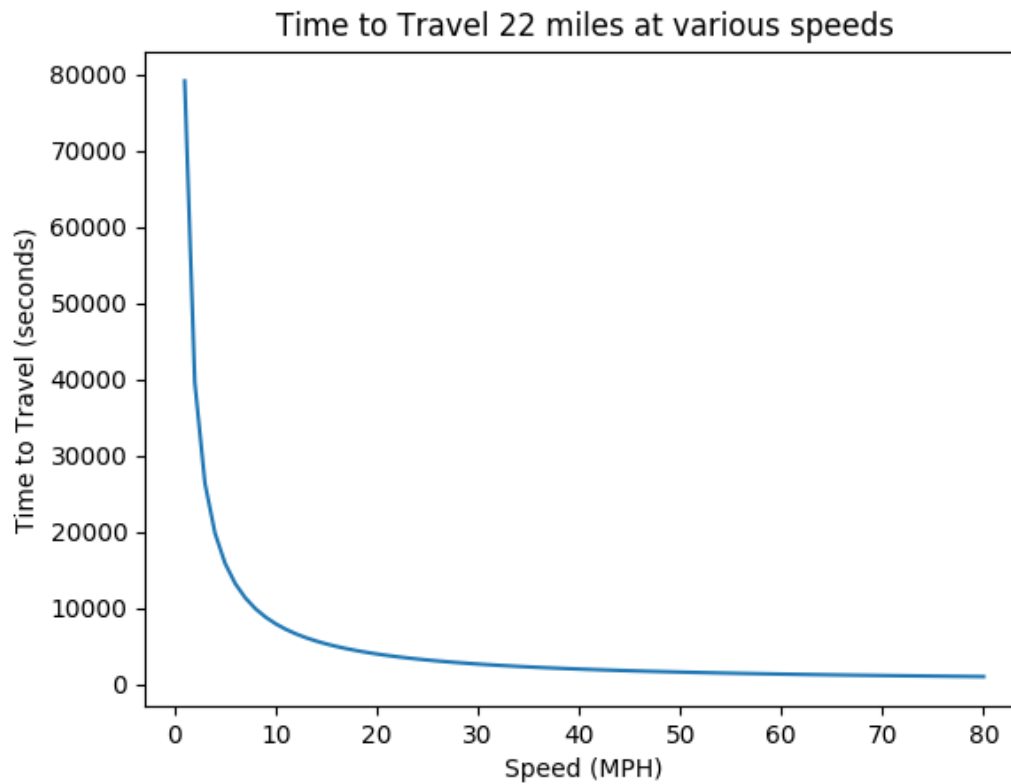
Task 4

I chose this method for visualizing gear ratios because the slope of the line drawn from (0,0) to the point representing the gear combination shows the gear ratio. This allows us to easily compare the gear ratios of different gear combinations simply by comparing the slope of the lines drawn. I did not try using a number line, but I tried plotting this 3-dimensionally using the x axis for the teeth on the back gear, the y axis for the teeth on the front gear, and the z axis for the calculated gear ratio, but this was less obvious and difficult to analyze.

If you have any questions, comments, or concerns, please contact me at
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