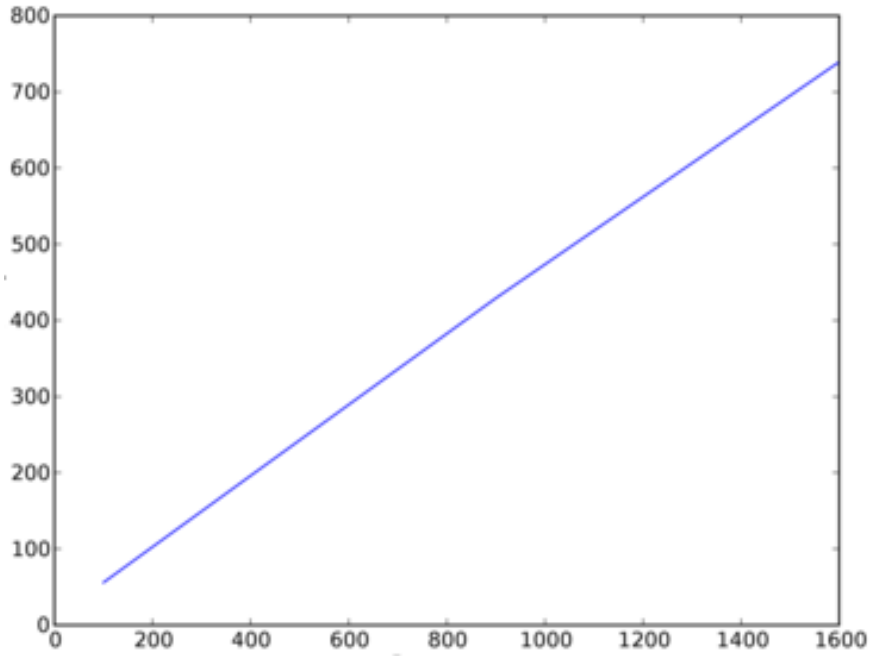
Problem 5: Data Plotting | Problem Set 2 | Contenu du cours 6.00.2x

Now, you'll use your simulation to answer some questions about the robots' performance.

In order to do this problem, you will be using a Python tool called PyLab.

Below is an example of a plot. This plot does not use the same axes that your plots will use; it merely serves as an example of the types of images that the PyLab package produces.



Note to those who did the optional visualization: For problem 5, we make calls to `runSimulation()` to get simulation data and plot it. However, you don't want the visualization getting in the way. If you chose to do the visualization exercise, before you get started on problem 5 (*and* before you submit your code in submission boxes), **make sure to comment the visualization code out of `runSimulation()`**. There should be 3 lines to comment out. If you do not comment these lines, your code will take a REALLY long time to run!!

For the questions below, call the given function with the proper arguments to generate a plot using PyLab.

Problem 5-1A

(1/1 point)

Examine **`showPlot1`** in `ps2.py`, which takes in the parameters *title*, *x_label*, and *y_label*. Your job is to examine the code and figure out what the plot produced by the function tells you. Try calling `showPlot1` with appropriate arguments to produce a few plots. Then, answer the following 3 questions.

Which of the following would be the best title for the graph?

Vous avez utilisé 1 essais sur 1

Problem 5-1B

(1/1 point)

Which of the following would be the best x-axis label for the graph?

Vous avez utilisé 1 essais sur 1

Problem 5-1C

(1/1 point)

Which of the following would be the best y-axis label for the graph?

Vous avez utilisé 1 essais sur 1

Problem 5-2A

(1/1 point)

Examine **`showPlot2`** in `ps2.py`, which takes in the same parameters as `showPlot1`. Your job is to examine the code and figure out what the plot produced by the function tells you. Try calling `showPlot2` with appropriate arguments to produce a few plots. Then, answer the following 3 questions.

Which of the following would be the best title for the graph?

Vous avez utilisé 1 essais sur 2

Problem 5-2B

(1/1 point)

Which of the following would be the best x-axis label for the graph?

Vous avez utilisé 1 essais sur 1

Problem 5-3C

(1/1 point)

Which of the following would be the best y-axis label for the graph?

Vous avez utilisé 1 essais sur 1

Afficher la discussion