

Section 1: Linear Functions

DO NOT POLLUTE! AVOID PRINTING, OR PRINT 2-SIDED MULTIPAGE.

In this homework you will review some basic topics that you need to know in order to understand what is AI and how it works. Each problem is worth 10 points.

Problem 1. Sketch the following dataset as a collection of points in a plot.

Subject	Age	Scrolling time 2
1	14	360
2	16	350
3	20	330
4	22	320
5	24	310
6	26	300
7	31	275
8	32	270
9	40	230
10	43	215
11	47	195
12	55	155
13	63	115
14	72	70
15	83	15
16	85	5

Problem 2. Provide an equation for the line that best describes the dataset above.

Problem 3. According to your line function, how many minutes does a 35 person spend scrolling?

Problem 4. According to your line function, how many minutes does a 86 person spend scrolling?

Problem 5. Include these new points in your plot. Do they agree with the same pattern as the original samples?

Problem 6. What is the derivative of this line function?