

Average and Instantaneous Velocities

t , in minutes	distance from BH, in miles
0	0
2	1.7
4	3.5
6	5.4
8	7.4
10	9.0
12	10.2
14	12.1
16	13.9
18	15.5
20	15.7
22	16.8
24	18.6
26	20.7

The table above shows data for the first portion of a trip from Bar Harbor to Bangor.

1. What is the average velocity of the car between times $t = 2.0$ and $t = 4.0$?
2. What is the average velocity of the car between times $t = 18.0$ and $t = 20.0$?
3. What is the average velocity of the object between times $t = 14.0$ and $t = 26.0$?

4. On the graph, draw a line whose slope is the average velocity between $t = 12$ and $t = 20$.
5. On the graph, draw a line whose slope is the average velocity between $t = 18$ and $t = 24$.
6. On the graph, draw a line whose slope is the instantaneous velocity at $t = 24$.

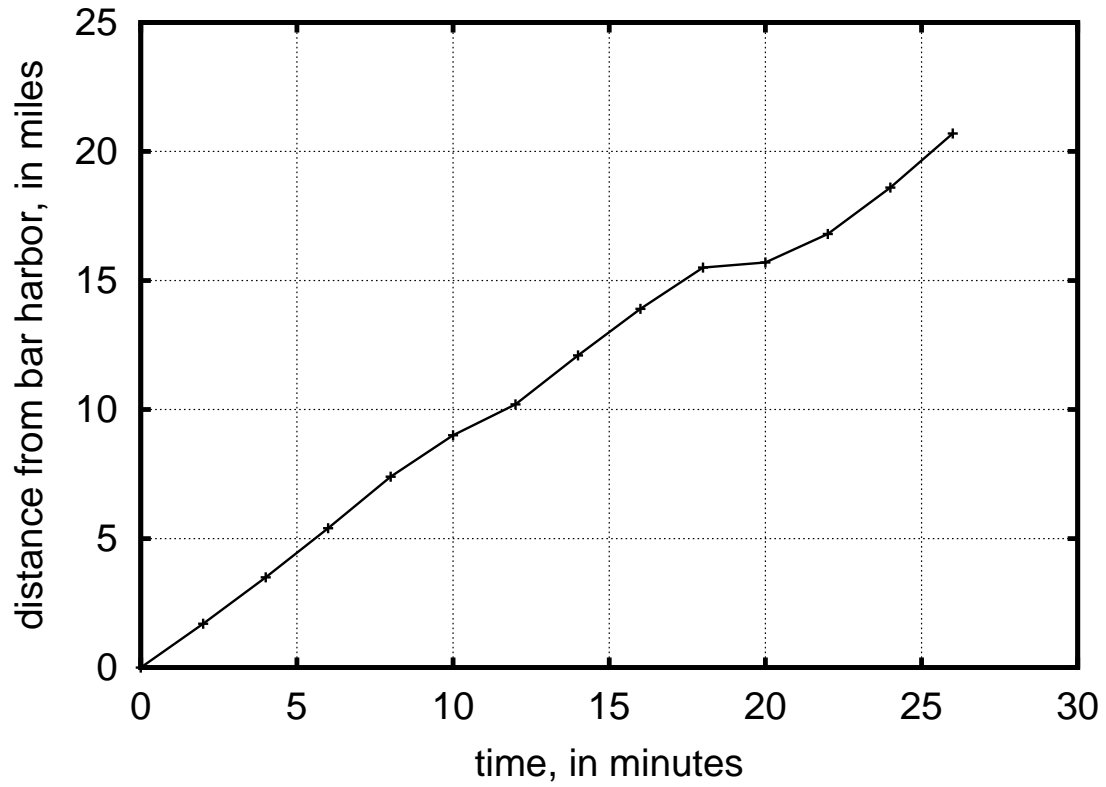


Figure 1: A trip from BH.