## **Average 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

- 1. The table above shows data for the first portion of a trip from Bar Harbor to Bangor.
  - (a) What is the average velocity of the car between times t = 2.0 and t = 4.0?
  - (b) What is the average velocity of the car between times t = 18.0 and t = 20.0?
  - (c) What is the average velocity of the car between times t = 14.0 and t = 26.0?
- 2. Suppose a worm moves in a straight line such that its distance from its starting point is given by the function  $x(t) = 2\sqrt{3x}$ .
  - (a) What is the average velocity of the worm between times t = 2.0 and t = 6.0?
  - (b) What is the average velocity of the car between times t = 6.0 and t = 12.0?
  - (c) What is the average velocity of the car between times t = 2.0 and t = 12.0?