Calculus
Warm-Up Rates of Change

The position of a particle over the interval [3.7, 6.1] is given in the table below. Use the table to answer each of the following questions.

t (sec)	3.7	4.3	4.9	5.5	6.1
$s(t)$ (feet)	1.8	3.4	4.6	6.4	5.7

1) How far did the particle travel over the interval [3.7, 5.5]?

2) What is the average velocity of the particle over the interval [4.3, 5.5]? What does this tell you about the motion of the particle.

3) What is the average velocity of the particle over the interval [5.5, 6.1]?

4) Estimate the instantaneous velocity at $t = 4.9$.