Mathematics 122

Quiz #27 Name: Key

You must show your work to get full credit.

The speed, v, of a runner is given as a function of time, t, in the following table.

t in sec	0.0	.5	1.0	1.5	2.0
v in m/sec	3.1	2.5	2.1	1.7	1.4

① ② ③ ④

Assuming the the speed is is decreasing find the following:

1. An upper bound for the distance she covered. 4.7 ft

$.5(3.1+2.5+2.1+1.7) = 4.7$

2. A lower bound for the distance she covered. 3.85 ft

$.5(2.5+2.1+1.7+1.4) = 3.85$

3. A best guess at the distance covered. 4.275

The average of the two above.

$$\frac{4.7+3.85}{2} =$$