

Show all work. 5 points each.

1) The table below shows the position of a cyclist.

t(min)	0	1	2	3	4	5
s(meters)	0	1.4	5.1	10.7	17.7	25.8

Find the average velocity for the time period (i) [1,3] and (ii) [3,5].

2) Plug in values close to 0 to estimate the value of the limit

$$\lim_{x \rightarrow 0} \frac{\sqrt{x+4} - 2}{x}$$