

Spring 2021
Free Response
Chapter 07.06 Integrating Functions Given at Discrete Points

The following data of the velocity of a body as a function of time is given as follows.

Time (s)	0	15	18	22	24
Velocity(m/s)	22	24	37	25	123

- a) Use trapezoidal rule with unequal segments to find the distance covered by the body from $t = 13$ to 18 seconds.
- b) What other ways would you suggest for finding the distance covered by the body from $t = 13$ to 18 seconds. Outline the ways.

Answer (a): = 139.23m