

# Lecture Quiz 1, Solution.

PHYSICS 161, Spring 2003

Lecture Quiz, Due beginning of class, Monday, Feb 3

This Lecture Quiz to be handed in individually. You are free to discuss it with class mates. No Make-Ups.

Reading Assignment: Chapter 2, Sections 2.1-2.5

Q1). In Figure 1a. a plot of position versus time ( $\bar{x}$  vs  $t$ ) for a particle moving along the  $x$ -axis is given. Draw the corresponding velocity versus time  $\bar{v}$  vs  $t$  graph in Fig 1b.

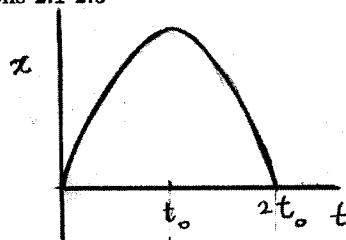


Fig 1a.

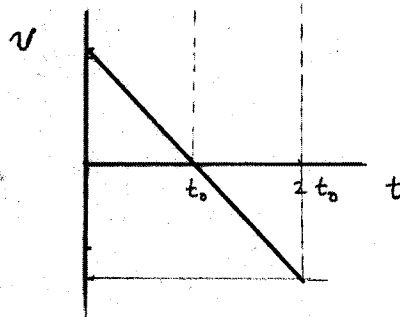


Fig 1b.

Q2). In Fig 2a. a plot of velocity versus time ( $\bar{v}$  vs  $t$ ) for a particle moving along the  $x$ -axis is given. Draw the corresponding position versus time ( $\bar{x}$  vs  $t$ ) graph.

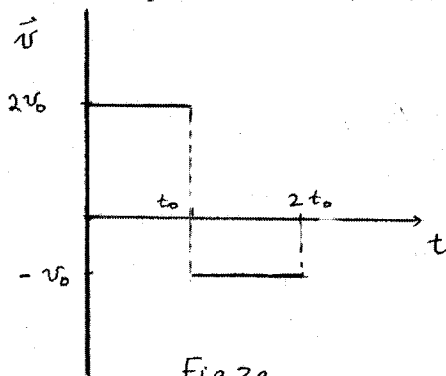


Fig 2a.

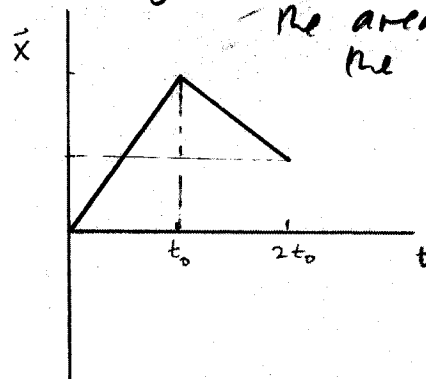


Fig 2b.

Recall;  $\bar{x}$  vs  $t$  can be gotten by finding the area under the  $\bar{v}$  vs  $t$  graph.