

Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

Marker's Initials

Consider a particle undergoing constant positive acceleration.

Prelab 1

Sketch the shape of its position vs. time graph?

Prelab 2

Sketch the shape of its velocity vs. time graph?

Prelab 3

Sketch the shape of its acceleration vs. time graph?

Prelab 4

What physical quantity is represented by the slope of the velocity vs. time graph?

Prelab 5

How do we determine an instantaneous velocity from the position time graph?

STAPLE YOUR PRE-LAB TO THIS PAGE

Laboratory Worksheet**Name and Student Number:** _____**Partner's Name:** _____**Date:** _____

QUESTION 1:

$$x_i =$$

$$x_f =$$

QUESTION 2:

$$0 \leq t \leq 1:$$

$$1 \leq t \leq 4:$$

$$4 \leq t \leq 5:$$

QUESTION 3:**QUESTION 4:**

QUESTION 5:

QUESTION 6:

QUESTION 7:

QUESTION 8:

CHECKPOINT: Instructor's Initials after you have made
your graphs (see instructions)



Staple graphs to the opposite page

QUESTION 9:

QUESTION 10:

QUESTION 11:



Staple graphs to the opposite page

QUESTION 12: