Unit 3: Quiz 2-a

Velocity vs. Time Graphs

The velocity vs. time graph for an object is shown below. Use the graph to describe the motion of the object as indicated.

0

-2 Unit 3 Quiz 2-a

Velocity vs. Time Graphs



8

6

4

2

0

2 Unit 3 Quiz 2-a

Velocity vs. Time Graphs



-4

-6

-8

v

(m/s)

t

(s)

2 4 6

1. Give a written description of the motion.

2. Determine the displacement, Δx, from t = 2s to t = 6s. Show your work!

3. Determine the object’s acceleration at t = 3 seconds. Show your work.

4. Make a qualitative motion map for the object’s motion. Include velocity and acceleration vectors.

Name

Date Pd

Unit 3 Quiz 2-b

Velocity vs. Time Graphs

The velocity vs. time graph for an object is shown below. Use the graph to describe the motion of the object as indicated.

2

0

8

6

4

2

0

-2

-4

-6

-8

v

(m/s)

t

(s)

2 4 6

1. Give a written description of the motion.

2. Determine the displacement, Δx, from t = 2s to t = 7s. Show your work!

3. Determine the object’s acceleration at t = 3 seconds. Show your work.

4. Make a qualitative motion map for the object’s motion. Include velocity and acceleration vectors.