**Unit 3 – Quiz 2a**

**Velocity-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.

1. Give a written description of the motion.
2. Determine the displacement, , 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.

**Unit 3 – Quiz 2b**

**Velocity-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.

1. Give a written description of the motion.
2. Determine the displacement, , 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.