

CAPM1: Qualitative graphs: Given v-t graph: A

Directions: In each problem you are given a velocity-time graph that describes an object's motion. The tick marks on the time axis indicate the different "parts" of the motion.

- (a) Sketch a possible position-time and the corresponding acceleration-time graph.
- (b) Sketch a motion map that includes one change-in-velocity vector and one acceleration vector for each part of the motion.
- (c) For each part of the motion, describe the direction the object is moving and what is happening to its speed

