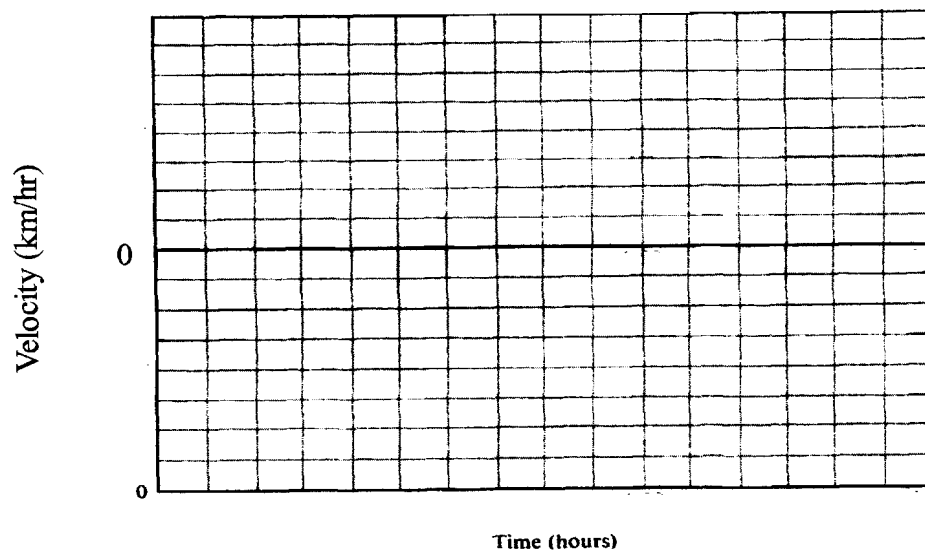
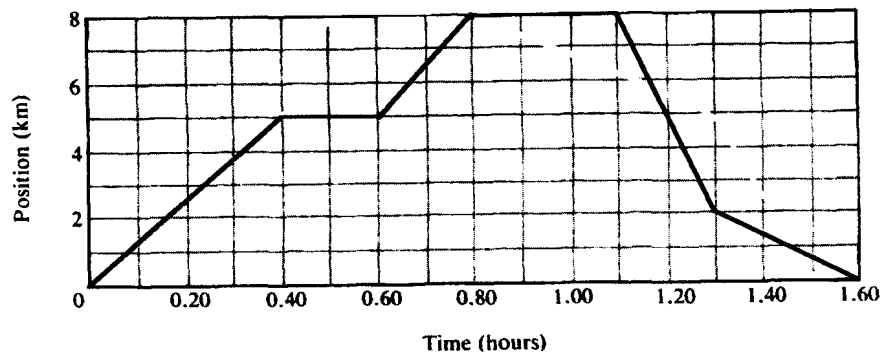
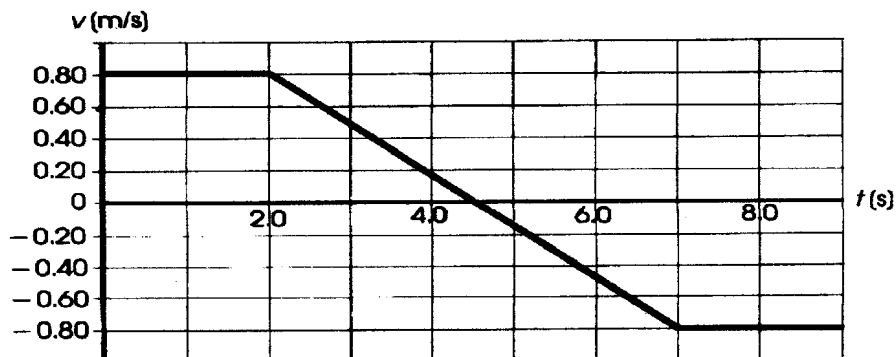


1. Bekki rode her bicycle as fast as she could from her house to Alyssa's house. After a short time she rode back as fast as she could. Below shows a position-time graph of her trip. Plot the velocity-time graph of Bekki's trip. From the information given and your graph, what would you give as a plausible description of the road between Bekki's house and Anne's house?



2. A ball rolls along the floor, up a sloping ramp, and then back down the board and across the floor again. The graph below represents this motion.

- At what time is the ball at its highest point? \_\_\_\_\_
- What is the acceleration when the ball is rolling up the ramp? \_\_\_\_\_
- What is the acceleration when the ball is rolling down the ramp? \_\_\_\_\_
- What is the acceleration when the ball is at its highest point? (at rest) \_\_\_\_\_
- How far up the board did the ball roll? \_\_\_\_\_
- What was the total displacement of the ball over the 9.0 second trip? \_\_\_\_\_



3. Bonus: A position time graph of a car is shown.

- a. At what time is the car going at the greatest speed? \_\_\_\_\_
- b. How fast is it traveling at that time? \_\_\_\_\_
- c. How fast was the car going at 0.70 hours? \_\_\_\_\_
- d. What is the average velocity for the first 0.70 hours? \_\_\_\_\_
- e. How far did the car go during the first two hours? \_\_\_\_\_
- f. What was the total displacement during the first two hours? \_\_\_\_\_

