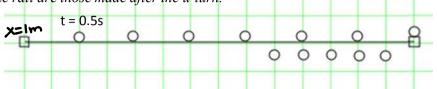
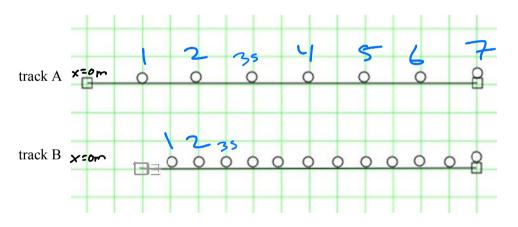
## Worksheet 1.1a

1. The following tracks are taken in 0.5 s intervals. Take the first track to have a clock reading of 0.5 s. At the end of the rail the object makes a u-turn. Each square represents 1 m. The tracks below the rail are those made after the u-turn.



- a. Describe the motion of the object. Constan V before the uturn & after faster before the turn
- b. What is the distance traveled for the object?
- c. What is the object's displacement?
- d. What is the object's starting position?  $\times = 1$
- e. What is the object's position at a clock reading of 4 s? at 2s?x=140x=90
- f. How long does it take the object to change its position from 3 m to 9 m?  $\pm 1.55$   $\pm 1.55$
- 2. The following are track of two objects that are side by side on different rails. The tracks are taken in 1-s intervals. Take the first track of each to have a clock reading of 1 s. Each square represents 1 meter.



a. Describe the motion of object A and B. constant v's, w/ A moving faster than B.

@ 2s, X=4mfor both

- b. How far did B travel in 4 s? 4m
- c. How long did it take A to travel 2 m?
- d. Which ball is ahead after 3 s?  $\triangleleft$
- c. Which object reached the end of the track first? A
- e. What is the position of each object after they have traveled for 4 s?A=8m,B=6m

 $\mathbf{f}$ . Are they ever at the same position at the same time?