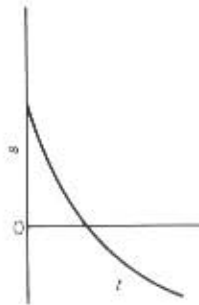
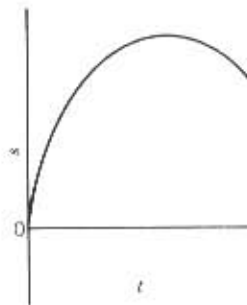
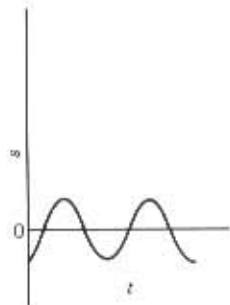
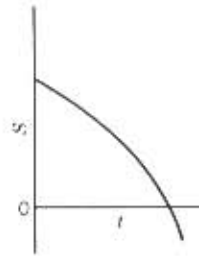
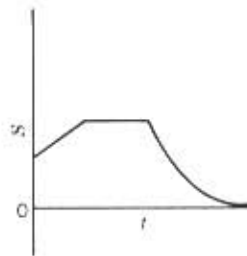
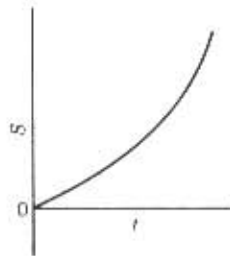
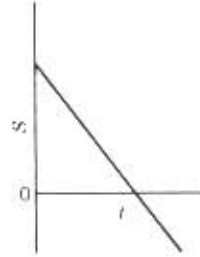
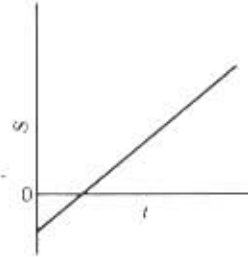
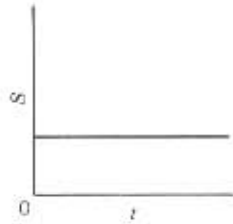


1. Let the edge of the table be the straight line along which motion is to take place. Think of the  $s = 0$  position as being near the center of the line with positive position numbers running toward the right and negative toward the left. Let your own hand be the moving object.

Interpret each one of the position versus clock reading histories shown in the following diagrams by performing the indicated motion with your hand. Include all the details such as speeding up, slowing down, reversing direction, standing still, moving at uniform velocity, having your hand at the appropriate position at  $t = 0$  and at the end of the history, and so on. Describe the motion in words as you execute it.

After having executed the motions with your hand, sketch the  $v$  versus  $t$  diagram corresponding to each of the  $s$  versus  $t$  diagrams. In your sketch, be sure to place the velocity diagram directly below the position diagram so that corresponding clock readings match up visually.



2. Let the edge of the table be the straight line along which motion is to take place. Think of the  $s = 0$  position as being near the center of the line with positive position numbers running toward the right and negative toward the left. Let your own hand be the moving object.

Interpret each one of the following velocity versus clock reading histories by executing each motion with your hand. Does the diagram tell you where your hand should be at  $t = 0$ ? Execute each motion more than once, each time placing your hand at a different initial position at  $t = 0$ . Describe the motion in words as you execute it.

After having executed the motions and described them, sketch corresponding  $s$  versus  $t$  diagrams for each of the  $v$  versus  $t$  diagrams. Be sure to align the position diagrams directly above the velocity diagrams so that corresponding clock readings match up visually.

