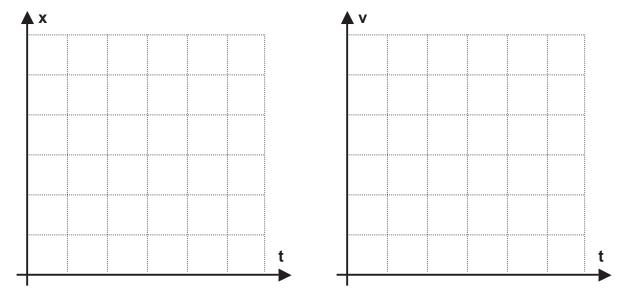
Name

Date____Pd__

UNIT II: Worksheet 4



- 1. From the motion map above, answer the following:
 - a. What can you conclude about the motion of the object?
 - b. Draw a qualitative graphical representation of \mathbf{x} vs \mathbf{t} (see below).
 - c. Draw a qualitative graphical representation of v vs t (see below).

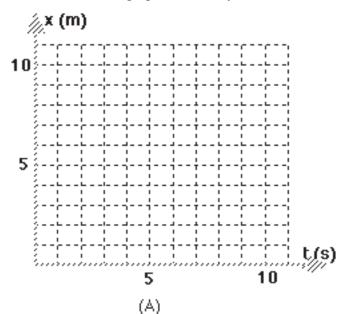


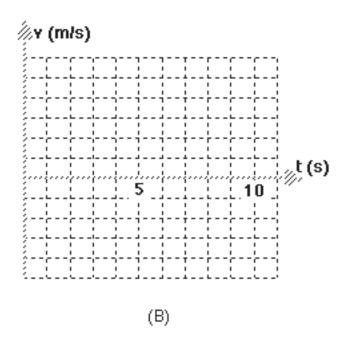
- d. Write a mathematical expression that represents the relationship between \mathbf{x} and \mathbf{t} , from fig. 1.
- e. Write a mathematical expression that represents the relationship between ${\bf v}$ and ${\bf t}$, from fig. 2
- f. Describe what the area under the curve in fig. 2 represents. Cross hatch this area.

2. From the position vs time data below, answer the following questions.

t(s)	x (m)
0	0
1	2
2	4
3	4
4	7
5	10
6	10
7	10
8	5
9	0

- a. Construct a graph of position vs time.
- b. Construct a graph of velocity vs time.





- c. Draw a motion map for the object.
- d. Determine the displacement from t = 3.0s to 5.0s using graph B.
- e. Determine the displacement from t = 7.0 s to 9.0 s using graph B.