

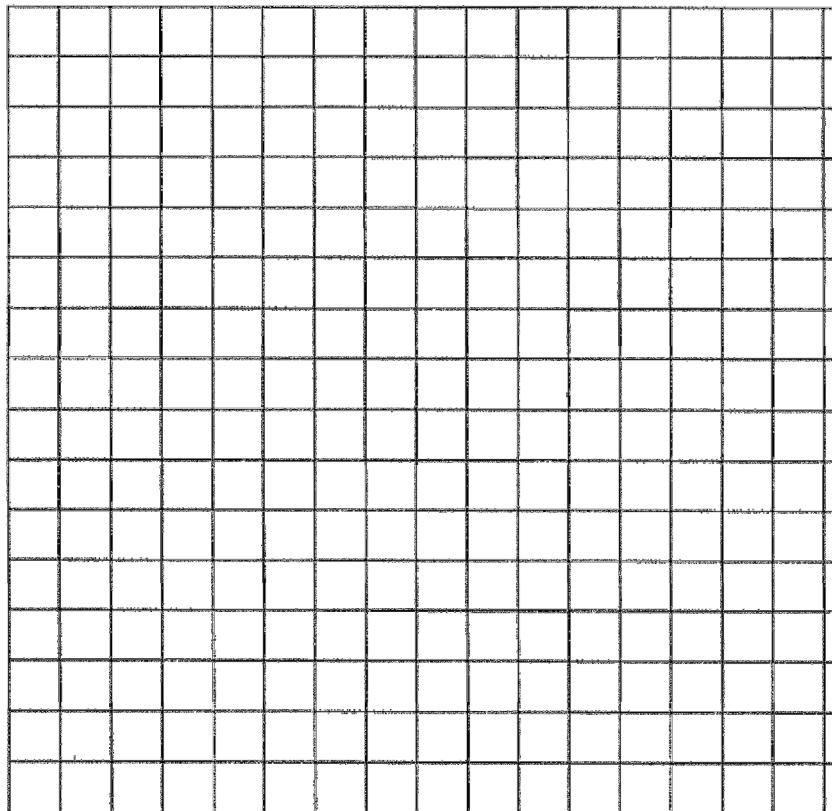
Graphing Practice

Name - _____

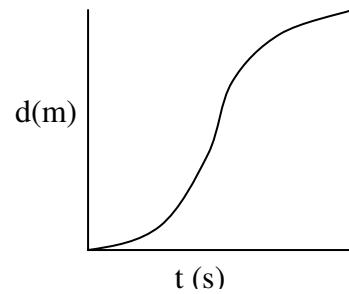
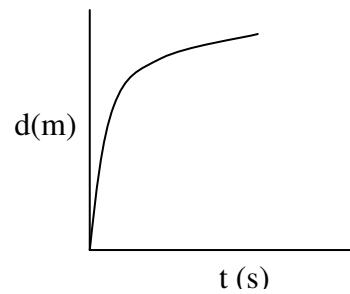
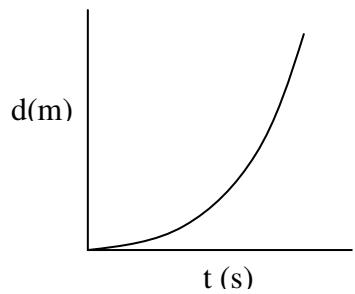
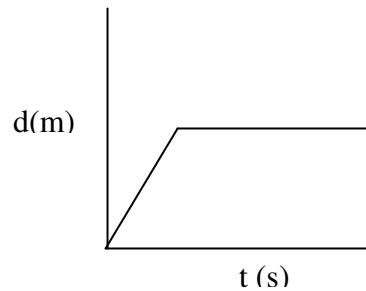
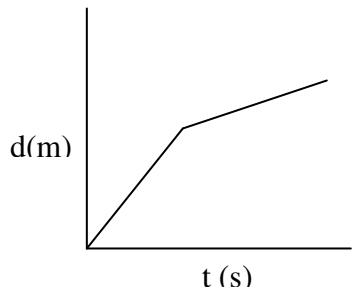
1.) Plot the data displayed below, determine the following:

- a) average velocity for first 2.5 sec
- b) average velocity from 2.5 to 7.5 sec
- c) velocity at exactly 2.5 sec

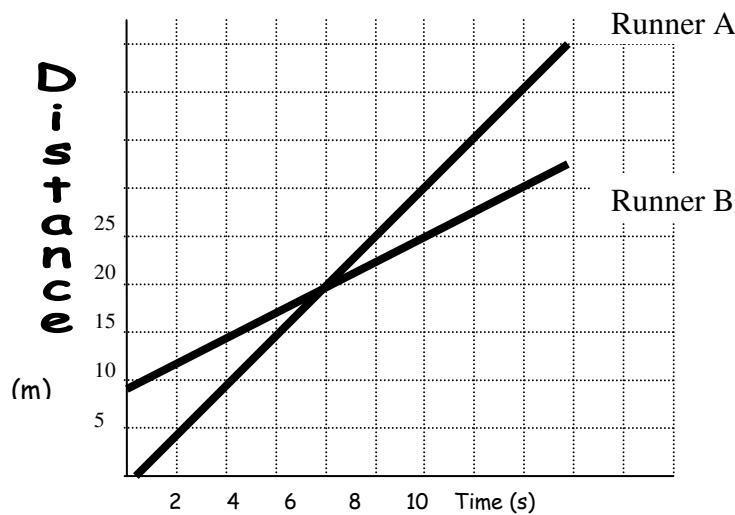
Time (s)	Distance (m)
0	10
0.5	13.1
1.0	15.9
1.5	18.1
2.0	19.5
2.5	20.5
3.0	19.5
3.5	18.1
4.0	15.9
4.5	13.1
5.0	10.0
5.5	6.9
6.0	4.1
6.5	1.9
7.0	0.5
7.5	0
8.0	0.5
8.5	1.9
9.0	4.1
9.5	6.9
10	10



2.) Describe the motion of the object in the graphs below.



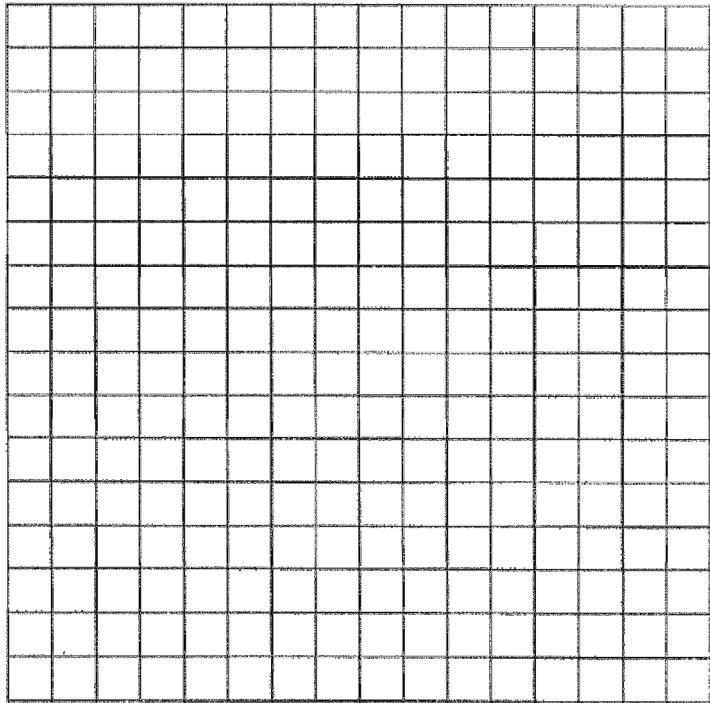
3.) Use the graph below to determine the following:



- Velocity of runners A and B.
- Distance head start of runner B.
- Time and distance when A passes B.

4.) Ben and Carl both run a 100 m dash. Ben runs at 10.0 m/s and Carl can only run at 6.0 m/s. Ben gives Carl a 30.0 m head start.

- a) Draw a distance vs. time graph for the two runners.



- b) Who wins based on your graph?
- c) What head start would result in a tie?