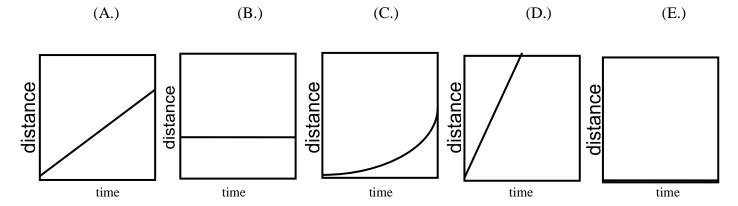
Velocity and	Acceleration	NAME:
Interpreting Graphs	• PHYSICS	DATE:

INTERPRETING GRAPHICAL INFORMATION



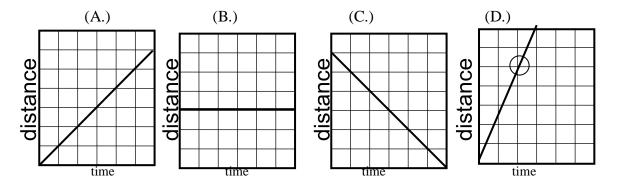
- 1. Which graph(s) represent(s) constant speed?
- 2. Which graph(s) represent(s) a plot of zero speed?
- 3. Which graph(s) represent(s) variable speed?
- 4. Which graph represents the fastest growing speed (all graphs are of the same time interval)?

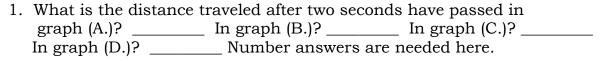
Suppose graph (B.) were a plot of velocity vs. time instead of distance vs. time. For the following questions choose your answer from A – E above.

- 5. What would the corresponding graph of distance vs. time look like?
- 6. How about the graph of acceleration vs. time...what would that look like?

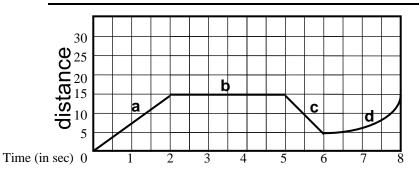
Suppose graph (A.) were a plot of velocity vs. time instead of distance vs. time. For the following questions choose your answer from A – E above.

- 7. What would the corresponding graph(s) of distance vs. time look like?
- 8. How about acceleration vs. time?





- 2. What is the average speed represented in graph (A.)? _____ In graph (B.)? _____ In graph (C.)? _____ In graph (D.)? _____ Number answers are needed here.
- 3. Suppose that the graphs now represent velocity vs. time instead of distance vs. time.
 - a. How much distance is traveled in graph (B.)?
 - b. What is the acceleration in graph (A.)? _____ In graph (B.)? ____ In graph (C.)? ____ In graph (D.)? ____ Number answers are needed here.
 - c. Which graph(s) represent(s) accelerated motion?
 - d. Which graph(s) represent(s) decceleration?



Answer the following questions:

- 1. The distance traveled during portion (b.) is ______.
- 2. The acceleration during portion (a.) is ______.
- 3. At which portion of the graph is the velocity negative? _____.
- 4. Is the speed constant in portion (d.)? _____
- 5. What is the speed at t= 1 sec.? _____