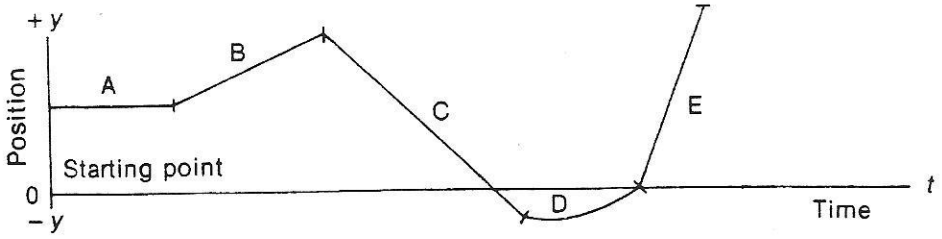
Honors Physics Kinematics – Acceleration Mr. McMullen

Names _____ Date _____ Period _____

Understanding Motion Graphs

In the space to the left, write the letter of the answer to each question.



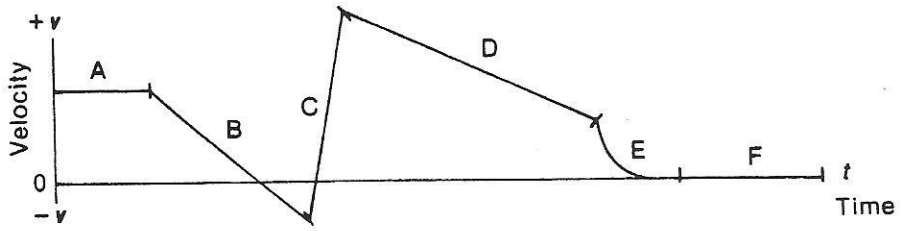
Questions 1 through 4 refer to the position-time graph above.

_____ **1.** Which section represents accelerated motion?

_____ **2.** Which section shows the object at rest?

_____ **3.** The object always moves toward the starting point in section _____ .

_____ **4.** Which section represents a constant negative velocity?



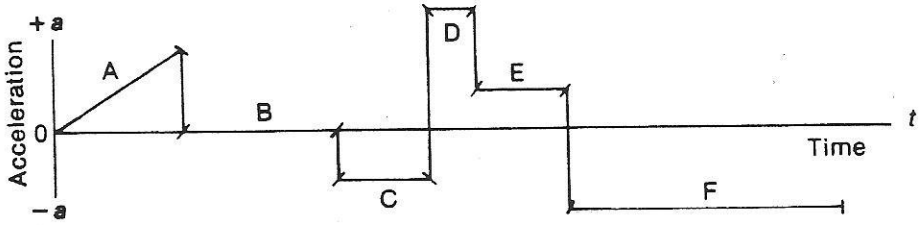
Questions 5 through 8 refer to the velocity-time graph above.

_____ **5.** Which section represents a constant velocity other than zero?

_____ **6.** Which section represents the greatest acceleration?

_____ **7.** Which section represents a changing acceleration?

_____ **8.** Which section represents the greatest displacement?



Questions 9 through 12 refer to the acceleration-time graph above.

_____ **9.** Which section represents the greatest change in velocity?

_____ **10.** Which section represents an acceleration of zero?

_____ **11.** Which section represents the greatest positive acceleration?

_____ **12.** Which section represents a changing acceleration?