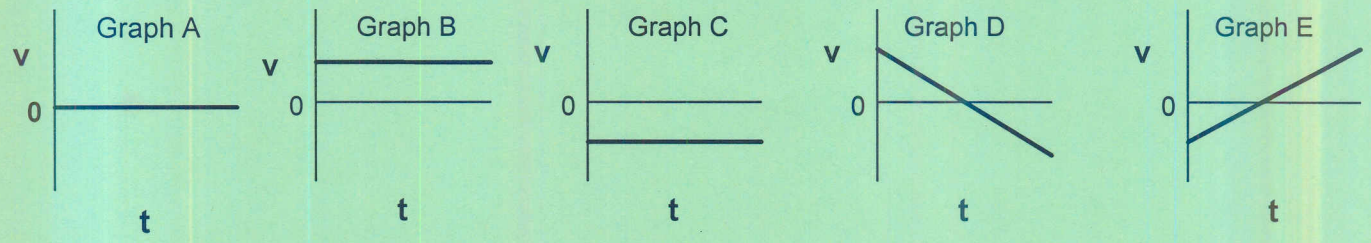
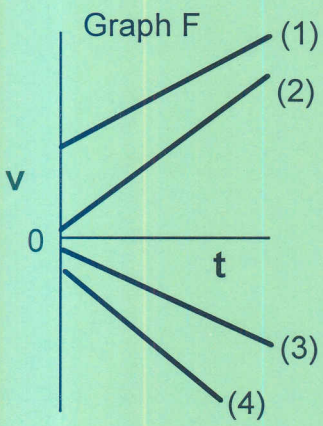
Action Physics Chapter 2 Quiz b – Interpreting Graphs of Motion **Name** _____

Darken in the correct answer(s) after each question. (The dark line represents the motion graph.)



1. Which graph(s) represent a car moving at constant speed toward the motion sensor? (A) (B) (D) (E)
2. Which graph(s) represents a car standing still? (B) (C) (D) (E)
3. Which graph(s) represent a car moving at constant speed away from the motion sensor? (A) (C) (D) (E)
4. Which graph(s) represents a car moving away from, stops quickly and then moves toward the detector? (A) (B) (C) (E)



5. The following questions refer to Graph F.
   a. Which line on graph F represents a car moving away from the detector with the lesser acceleration? (2) (3) (4)
   b. Which line on graph F represents a car moving toward the detector with the lesser accelerations? (1) (2) (4)
   c. Which line on graph F represents a car moving away from the detector with the greatest acceleration? (1) (3) (4)
   d. Which line on graph F represents a car moving toward the detector with the greatest acceleration? (1) (2) (3)
6. What else can be determined from a velocity vs time graph? Explain