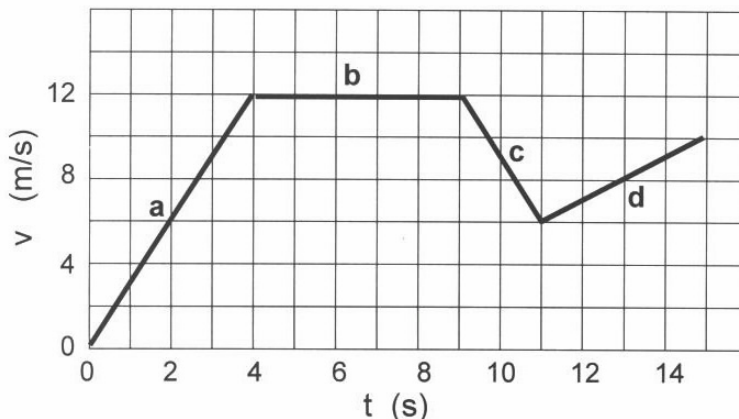
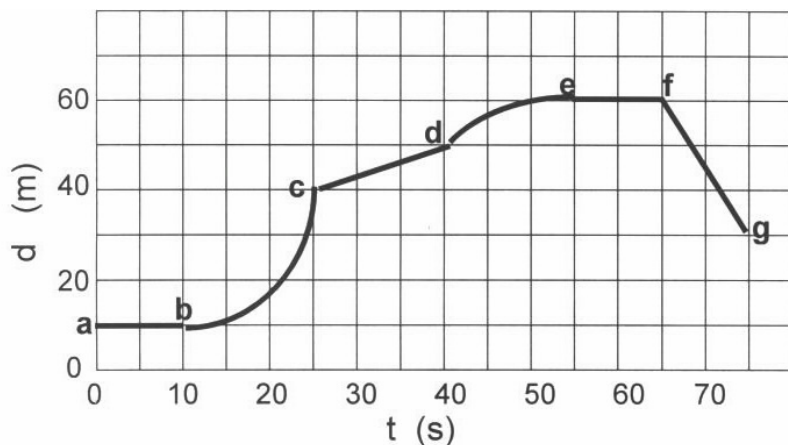


Questions 1-4 refer to the velocity-time graph of a car's motion:



- In which section is the car accelerating from rest? a
- In which section is the car's acceleration negative? c
- How far does the car travel during section "b"? 60 m ($12 \text{ m/s} \times 5 \text{ s}$)
- What is the acceleration of the car in each section? *acceleration = slope of line*
 a 3 m/s^2 b 0 m/s^2 c -3 m/s^2 d 1 m/s^2

Questions 5-10 refer to displacement-time graph of a cart's motion:



- In which section(s) is the cart accelerating?
b-c; d-e
- In which section(s) is the cart not moving?
a-b; e-f
- In which section(s) is the cart moving backwards?
f-g
- In which section(s) is the cart's instantaneous velocity at any time equal to its average velocity?
c-d; f-g (also a-b; e-f)
- What is the velocity of the cart in these sections? *velocity = slope of line*
 a-b 0 m/s c-d 0.7 m/s e-f 0 m/s f-g -3 m/s
- How far does the cart move in section b-c? 30 m e-f? 0 m