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Worksheet: Motion Graphs

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

1. In which section is the car accelerating from rest? a

2. In which section is the car's acceleration negative? c

3. How far does the car travel during section 'b'? 60 m

4. What is the acceleration of the car in each section?
a 2 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:

5. In which section(s) is the cart accelerating? b, c, d

6. In which section(s) is the cart not moving? AB, CD

7. In which section(s) is the cart moving backwards? FG

8. In which section(s) is the cart's instantaneous velocity at any time equal to its average velocity? AB, CD

9. What is the velocity of the cart in these sections?
 $\rightarrow 0 \text{ m/s}$ $\leftarrow 3 \text{ m/s}$ $\rightarrow 0 \text{ m/s}$ $\rightarrow 3 \text{ m/s}$

10. How far does the cart move in section b? $\rightarrow 20 \text{ m}$ $\leftarrow 0 \text{ m}$

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