Mr. MacDonald   Velocity - Time Analysis: Assignment   Name _____

Positive Direction ⇒ East

Velocity (m\s)

10

5

5   10   15   20

- 5

- 10

Neg. Direction ⇒ West

Time (s)

1. Calculate the acceleration from 0 to 2 seconds.

2. Calculate the acceleration between 7 and 12 seconds.

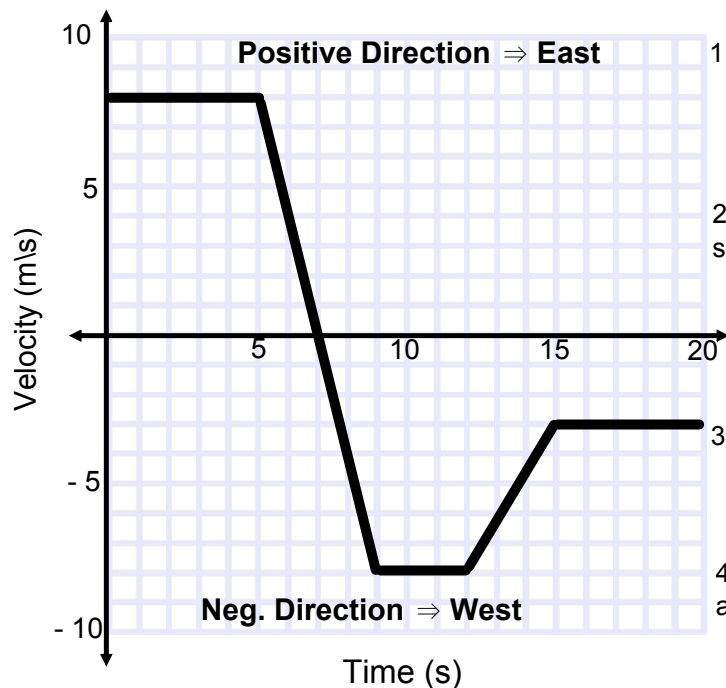3. At what time(s) did the object change direction?

4. For how many seconds was the object not accelerating?

5. Calculate the distance traveled in the East.

6. Calculate the distance traveled in the West.

7. Calculate the average speed and velocity for the entire 20 seconds.

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Positive Direction ⇒ East

Velocity (m\s)

Neg. Direction ⇒ West

Time (s)

1. Calculate the acceleration from 5 to 9 seconds.

2. Calculate the acceleration between 12 and 15 seconds.

3. At what time(s) did the object change direction?

4. For how many seconds was the object not accelerating?

5. Calculate the total distance traveled in the East.

6. Calculate the total distance traveled in the West.

7. Calculate the average speed and velocity for the entire 20 seconds.

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