

Using the graph above answer each of the following questions:

- 1. At what time(s) did the object change direction?
- 2. During which time interval(s) was the acceleration in the opposite direction as the object's motion?
- 3. Did the object spend more time traveling east or west?
- 4. How much time did the object spend moving east?
- 5. How far did the object travel in the last 3 seconds?
- 6. Calculate the acceleration at the 8.5 second mark.
- 7. What is the objects velocity at 5s?
- 8. Calculate the total distance and resulting position of the object at the end of the 20 seconds.
- 9. What is the objects average speed and average velocity at the end of the 20 seconds?
- 10. Assuming the object started at position (0,0). Without extensive calculations, estimate at what point in time the object had instantaneously returned to its starting position.