Velocity Time Graphs

1.

20

v(m/s)

15

10

5

1 2 3 4 5 6 7 8 9 time(s)

1. Where is the magnitude of the acceleration the greatest?
2. During what time interval is the acceleration zero?
3. What is the displacement between 5 and 6 seconds?
4. What is the acceleration between 6 and 8 seconds?
5. What is the displacement between 3 and 4 seconds?

2. Draw a position vs. time graph and an acceleration vs. time graph from the given velocity vs. time graph below. Please use numbers on the axes.

80

v(m/s)

60

40

20

10 20 30 40 50 60 70 time(s)