

Math 21A: Quiz 3

(Waldron 2/21/08)

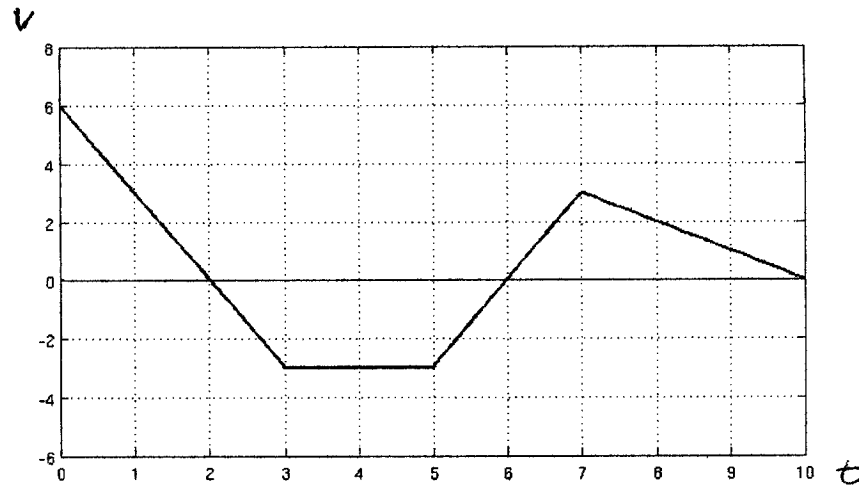
Name : Solutions

Score : 20

Graded: TA

This is a closed book, no calculator quiz.

The figure below shows the velocity $v = ds/dt = f(t)$ of a particle moving on a coordinate line.



1. (4 points) When does the particle reverse direction?

2 points each

$$t = 2 \quad t = 6$$

-2 points if $t = 10$ is included

2. (4 points) When is the particle moving at a constant speed?

in the interval $(3, 5)$

4 points for interval and endpoints

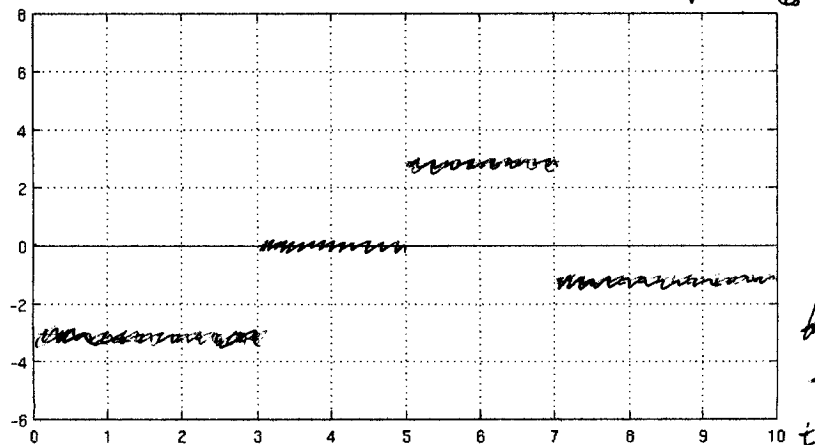
3. (4 points) When is the particle **not** moving for an instant or more?

$$t = 2, \quad t = 6, \quad t = 10$$

4 points for all give

4. (8 points) Graph the acceleration, where defined.

-2 for extra points given
-4 for anything else



2 points each
for constant
piecewise steps

~~Handwritten scribbles~~
-6 for sloped
lines