



(b)

Which stops first?

- A. A
- B. B

(c)

Which travels farther?

- A. A
- B. B

Answer(s) submitted:

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(incorrect)

6. (1 pt) Suppose that an accelerating car goes from 0 mph to 68.2 mph in five seconds. Its velocity is given in the following table, converted from miles per hour to feet per second, so that all time measurements are in seconds. (Note: 1 mph is 22/15 ft/sec.) Find the average acceleration of the car over each of the first two seconds.

$t$	0	1	2	3	4	5
$v(t)$	0.00	34.09	59.09	77.27	90.91	100.00

average acceleration over the first second =  
\_\_\_\_\_ (include units)

average acceleration over the second second =  
\_\_\_\_\_ (include units)

Answer(s) submitted:

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(incorrect)

7. (2 pts) The velocity function is  $v(t) = -1t^2 - 2t + 6$  for a particle moving along a line. Find the displacement (net distance covered) of the particle during the time interval  $[-3, 6]$ .

Displacement = \_\_\_\_\_

Answer(s) submitted:

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(incorrect)