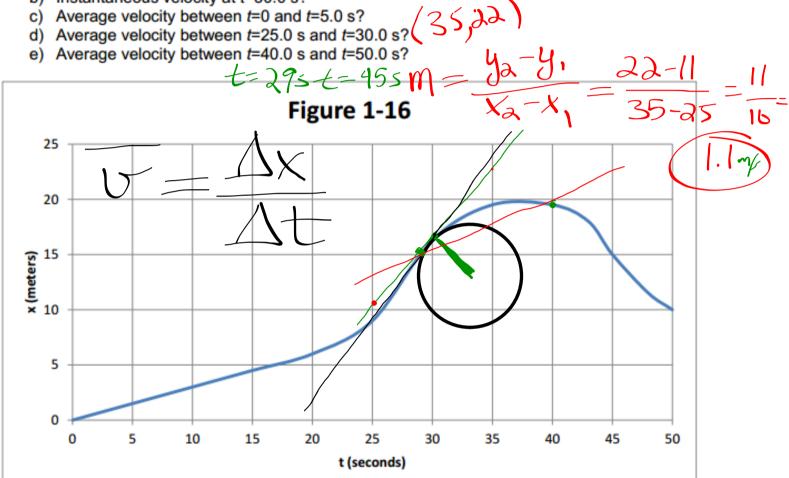
49. The position of a rabbit along a straight tunnel as a function of time is plotted in Figure 1-16. What is its

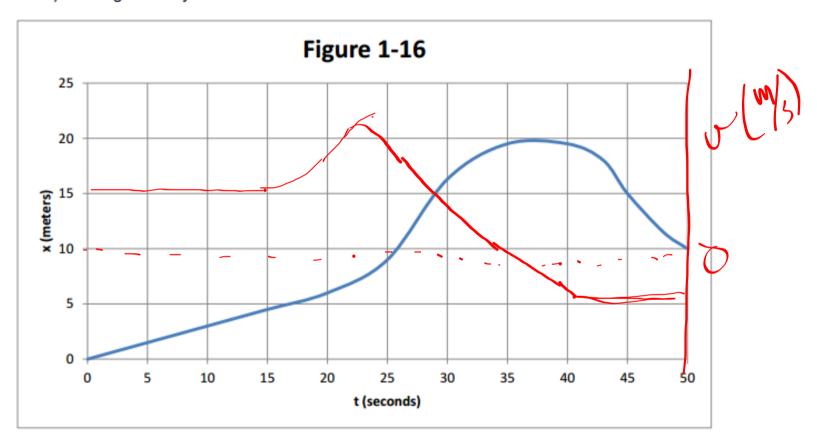
a) Instantaneous velocity at *t*=10.0 s?
b) Instantaneous velocity at *t*=30.0 s?
c) Average velocity between *t*=0 and *t*=5.0 s?



- 51. Figure 1-17 shows the velocity of a train as a function of time.
 - a) At what time was its velocity greatest?
 - b) During what periods, if any, was the velocity constant?
 - c) During what periods, if any, was the acceleration constant?
 - d) When was the magnitude of the acceleration greatest? What was the acceleration?



- 49. The position of a rabbit along a straight tunnel as a function of time is plotted in Figure 1-16. What is its
 - a) Instantaneous velocity at t=10.0 s?
 - b) Instantaneous velocity at t=30.0 s?
 - c) Average velocity between t=0 and t=5.0 s?
 - d) Average velocity between t=25.0 s and t=30.0 s?
 - e) Average velocity between t=40.0 s and t=50.0 s?



- 51. Figure 1-17 shows the velocity of a train as a function of time.
 - a) At what time was its velocity greatest?
 - b) During what periods, if any, was the velocity constant?
 - c) During what periods, if any, was the acceleration constant?
 - d) When was the magnitude of the acceleration greatest? What was the acceleration?

