

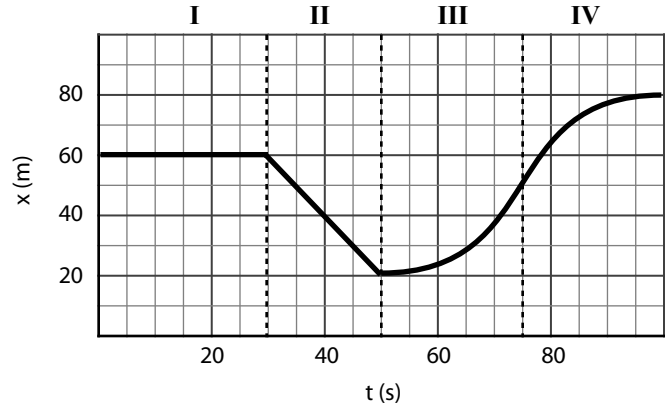
# PhyzJob: Analytical Graphical Kinematics Exercises



## I. Interpreting the Position vs. Time Graph

1.a. Write a qualitative description for the motion of the particle during section I.

b. Mathematically determine the velocity of the particle during that interval.



2.a. Write a qualitative description for the motion of the particle during section II.

b. Mathematically determine the velocity of the particle during that interval.

3.a. Write a qualitative description for the motion of the particle during the section III.

b. Mathematically determine the average velocity of the particle during that interval.

c. What are the initial and final velocities in section III?

4.a. Write a qualitative description for the motion of the particle during section IV.

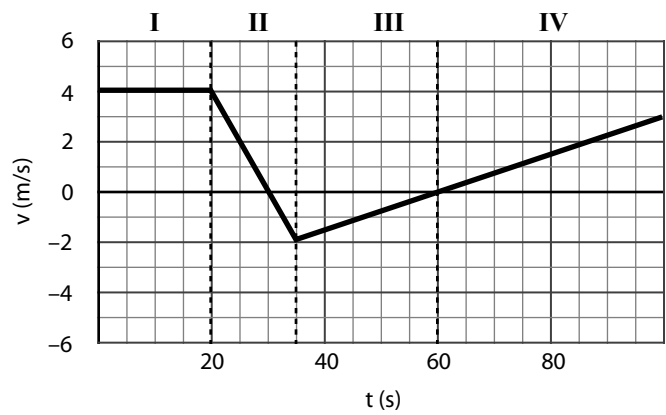
b. Mathematically determine the average velocity of the particle during that interval.

c. What are the initial and final velocities in section IV?

## II. Interpreting the Velocity vs. Time Graph

1.a. Write a qualitative description for the motion of the particle during section I.

b. Mathematically determine the velocity of the particle during that interval.



2.a. Write a qualitative description for the motion of the particle during section II.

b. Mathematically determine the acceleration of the particle during that interval.

3.a. Write a qualitative description for the motion of the particle during the section III.

b. Mathematically determine the change in position of the particle during that interval.

4.a. Write a qualitative description for the motion of the particle during section IV.

b. Mathematically determine the acceleration of the particle during that interval.

c. Mathematically determine the change in position of the particle during that interval.