

## PHYSICS 1

### Sample Problems in Kinematics

1. A Mazda travels in a straight line along a road. Its distance ( $x$ ) from the starting point is given as a function of time by the equation  $x = 30 + 10t^2$ .
  - a. Find the displacement of the Mazda car during the interval between  $t_1 = 1s$  and  $t_2 = 2s$ .
  - b. Find the average velocity during the same time interval.
  - c. Find the instantaneous velocity at time  $t=1s$  by taking  $\Delta t$  to be  $0.001s$ .

**SOLUTION:**

$$a. \text{ @ } t = 1s$$

$$x_1 = 30 + 10(1s)^2 = 40m$$

$$\text{ @ } t = 2s$$

$$x_2 = 30 + 10(2s)^2 = 70m$$

$$\Delta x = x_2 - x_1 = 70m - 40m = 30m$$

$$b. \quad v_{ave} = \frac{x_2 - x_1}{t_2 - t_1} = \frac{70m - 40m}{2s - 1s} = 30m/s$$

$$c. \quad v = \frac{dx}{dt} = \frac{d}{dt} [30 + 20t] = 20(1) = 20m/s$$

# Kinematics Solved Problems Cutnell Physics

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