

## 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  $t_1 = 1\text{s}$  and  $t_2 = 2\text{s}$ .
  - b. Find the average velocity during the same time interval.
  - c. Find the instantaneous velocity at time  $t=1\text{s}$  by taking  $\Delta t$  to be  $0.001\text{s}$ .

**SOLUTION:**

<p>a. @ <math>t = 1\text{s}</math> <math>x_1 = 30 + 10(1\text{s})^2 = 40\text{m}</math> @ <math>t = 2\text{s}</math> <math>x_2 = 30 + 10(2\text{s})^2 = 70\text{m}</math> <math>\Delta x = x_2 - x_1 = 70\text{m} - 40\text{m} = 30\text{m}</math></p> <p>b. <math>v_{ave} = \frac{x_2 - x_1}{t_2 - t_1} = \frac{70\text{m} - 40\text{m}}{2\text{s} - 1\text{s}} = 30\text{m/s}</math></p> <p>c. <math>v = \frac{dx}{dt} = \frac{d}{dt} [20t] = 20(1) = 20\text{m/s}</math></p>
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# Kinematics Solved Problems Cutnell Physics

**N Noddings**



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