

# Tutorial -1 Worksheet and Solutions

## Introductory Physics 1030U Fall 2022

Week 1 - Sep 19th to Sep 23rd

Student Name:

Student ID:

Date:

- For 1D motion with constant acceleration, the kinematic equations are:

$$v_f = v_i + a_x \Delta t$$

$$s_f = s_i + v_i \Delta t + \frac{1}{2} a_x (\Delta t)^2$$

$$v_f^2 = v_i^2 + 2a_x \Delta s$$

- You are driving through the United States and encounter a speed limit sign of 80.0 mph.
  - What is the limit you can drive in your Canadian car that gives speed in km/h?
  - What is the speed limit in SI units? (Present answers with proper notations and significant figures).

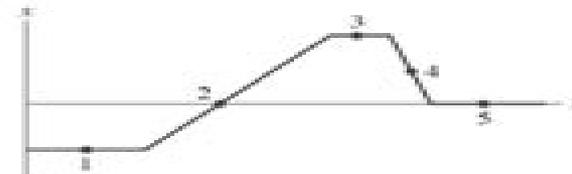
Note: 1 mile = 1.61 Km

$$\textcircled{a} \quad 80.0 \text{ mph} = 80.0 \frac{\text{miles}}{\text{h}} \times \frac{1.61 \text{ Km}}{1 \text{ mile}} = 129 \text{ Km/h}$$

$$\textcircled{b} \quad 80.0 \text{ mph} = 80.0 \frac{\text{miles}}{\text{h}} \times \frac{1.61 \text{ Km}}{1 \text{ mile}} \times \frac{1000 \text{ m}}{1 \text{ Km}} \times \frac{1 \text{ h}}{3600 \text{ sec}} = 35.8 \text{ m/s}$$

- The figure shows a position-versus-time graph for a moving object. At which numbered point or points:

- |  |            |
|--|------------|
| a. Is the object moving the slowest?                 | 2          |
| b. Is the object moving the fastest?                 | 4          |
| c. Is the object at rest?                            | 1, 3, 5    |
| d. Does the object have a constant nonzero velocity? | 2, 4       |
| e. Is the object moving to the left?                 | 4 (negativ |



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**Lillian C. McDermott, Peter S.  
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