

Exercise -2(C)

1. Write three equations of uniformly accelerated motion relating the initial velocity ( $u$ ), final velocity ( $v$ ), time ( $t$ ), acceleration ( $a$ ) and displacement ( $S$ ).

**Solution:**

The three equations of uniformly accelerated motion relating to initial velocity( $u$ ), final velocity( $v$ ), time( $t$ ), acceleration( $a$ ) and displacement( $S$ ) are as follows:

- (i)  $v = u + at$
- (ii)  $S = ut + \frac{1}{2} at^2$
- (iii)  $v^2 = u^2 + 2As$

2. Derive the following equations for a uniformly accelerated motion:

- (i)  $v = u + at$
- (ii)  $S = ut + \frac{1}{2} at^2$
- (iii)  $v^2 = u^2 + 2As$

where the symbols have their usual meanings.

**Solution:**

Let initial velocity ( $u$ ), final velocity( $v$ ), time( $t$ ), acceleration( $a$ ) and displacement( $S$ )



**First law of Motion**

- (i) We know that acceleration is the rate of change of velocity:

$$\text{Acceleration} = \frac{\text{change in velocity}}{\text{time taken}}$$

$$a = \frac{\text{Final velocity} - \text{Initial velocity}}{\text{time taken}}$$

$$a = \frac{v - u}{t}$$

$$at = v - u$$

$$\therefore v = u + at$$

----- equation (1)

- (ii) We know that distance travelled = average velocity x time

$$S = \frac{\text{Initial velocity} + \text{Final velocity}}{2} \times \text{time}$$

$$S = \frac{u + v}{2} \times \text{time}$$

From equation (1),  $v = u + at$ , substituting the value of  $v$  in the above equation:

# Holt Physics Problem Solutions Chapter 2 Motion

**ML Morrison**



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