

The average velocity is defined  $v_{\text{average}} = \frac{v_0 + v_f}{2} = 1.75 \text{ m/s}$

To find the time, we find the kinematics equation that contains  $a$  and the given quantities. Examining our equations we see that we can use  $\Delta x = \frac{v_0 + v_f}{2}t$ . Rearranging this equation to find  $t$  yields

$$t = \frac{2\Delta x}{v_0 + v_f} = 3.143 \text{ s}$$

(b) When an object moving in 1D turns around we know that the object is instantaneously at rest and that its velocity at that point is  $v_3 = 0$ . The information that we know is thus:

$$v_0 = +5.0 \text{ m/s}$$

$$v_3 = 0 \text{ m/s}$$

This is our new final velocity

$$a = -2.068 \text{ m/s}^2$$

From part (a)

$$\Delta x = ?$$

$$v_{\text{average}} = ?$$

$$t = ?$$

Notice that the acceleration is a constant of the motion; it has the same value in both parts of the problem.

To find the displacement from the initial position where the ball turns around, we find the kinematics equation that contains  $x$  and the given quantities. Examining our equations we see that we can use  $2a\Delta x = v_f^2 - v_0^2$ . Rearranging this equation to find  $x$  yields

$$\Delta x = \frac{v_f^2 - v_0^2}{2a} = \frac{(0 \text{ m/s})^2 - (5.0 \text{ m/s})^2}{2 \times (-2.068 \text{ m/s}^2)} = 6.04 \text{ m}$$

and is consistent with the sketch, i.e. the ball was farther up the incline when it turned around.

To find the time it takes for the ball to reach the point where it turns around, we find the kinematics equation that contains  $t$  and the given quantities. Examining our equations we see that we can use

$$v_f = v_0 + at$$

Rearranging this equation to find  $t$  yields  $t = \frac{v_f - v_0}{a} = \frac{(0 \text{ m/s}) - (5.0 \text{ m/s})}{-2.068 \text{ m/s}^2} = 2.42 \text{ s}$

Notice that this value is smaller than the time in part (a) and is consistent with the sketch, i.e. the ball hasn't come back down the incline yet.

**Top**

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2. A bullet in a rifle accelerates uniformly from rest at  $a = 70000 \text{ m/s}^2$ . If the velocity of the bullet as it leaves the muzzle is  $500 \text{ m/s}$ , how long is the rifle barrel? How long did it take for the bullet to travel the length of the barrel? What is the average speed of the bullet?

# Physics Kinematics Problems And Solutions

**Huangqi Zhang**



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