

Holt Physics

Problem 2D**VELOCITY AND DISPLACEMENT WITH CONSTANT ACCELERATION****PROBLEM**

Some cockroaches can run as fast as 1.5 m/s. Suppose that two cockroaches are separated by a distance of 60.0 cm and that they begin to run toward each other at the same moment. Both insects have constant acceleration until they meet. The first cockroach has an acceleration of 0.20 m/s^2 in one direction, and the second one has an acceleration of 0.12 m/s^2 in the opposite direction. How much time passes before the two insects bump into each other?

SOLUTION**A. DEFINE**

Given

$$a_1 = 0.20 \text{ m/s}^2 \text{ (first cockroach's acceleration)}$$

$$v_{1i} = 0 \text{ m/s (first cockroach's initial speed)}$$

$$a_2 = 0.12 \text{ m/s}^2 \text{ (second cockroach's acceleration)}$$

$$v_{2i} = 0 \text{ m/s (second cockroach's initial speed)}$$

$$d = 60.0 \text{ cm} = 0.60 \text{ m (initial distance between the insects)}$$

Unknown

$$\Delta x_1 = ? \quad \Delta x_2 = ? \quad \Delta t = ?$$

B. PLAN

Choose an equation(s) or situation(s). Use the equation for displacement with constant acceleration for each cockroach.

$$\Delta x_1 = v_{1i}\Delta t + \frac{1}{2}a_1\Delta t^2$$

$$\Delta x_2 = v_{2i}\Delta t + \frac{1}{2}a_2\Delta t^2$$

The distance the second cockroach travels can be expressed as the difference between the total distance that initially separates the two insects and the distance that the first insect travels.

$$\Delta x_2 = d - \Delta x_1$$

Rearrange the equation(s) to isolate the unknown(s). Substitute the expression for the first cockroach's displacement into the equation for the second cockroach's displacement, using the equation relating the two displacements to the initial distance between the insects.

$$\begin{aligned}\Delta x_2 &= d - \Delta x_1 = d - \left(v_{1i}\Delta t + \frac{1}{2}a_1\Delta t^2 \right) \\ &= v_{1i}\Delta t + \frac{1}{2}a_2\Delta t^2\end{aligned}$$

The equation can be rewritten to express d in terms of the known quantities. To simplify the calculation, the terms involving the initial speeds, which are both zero, can be removed from the equations.

$$d - \frac{1}{2}a_1\Delta t^2 = \frac{1}{2}a_2\Delta t^2$$

$$\Delta t = \sqrt{\frac{2d}{a_1 + a_2}}$$

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Robert R. Redfield



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