

## 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 accelerations until they meet. The first cockroach has an acceleration of  $0.20 \text{ m/s}^2$  in one direction, and the second one has an acceleration of  $0.12 \text{ m/s}^2$  in the opposite direction. How much time passes before the two insects bump into each other?

**SOLUTION****A. DEFINE**

**Given:**  $a_1 = 0.20 \text{ m/s}^2$  (first cockroach's acceleration)  
 $v_{1i} = 0 \text{ m/s}$  (first cockroach's initial speed)  
 $a_2 = 0.12 \text{ m/s}^2$  (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:**  $\Delta x_1 = ?$   $\Delta x_2 = ?$   $\Delta t = ?$

**B. PLAN**

Choose an equation(s) or situation(s) to use. 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.

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

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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**Jiyuan Zhang**



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## **Table of Contents Holt Physics Additional Practice Problem 17a Answers**

1. Understanding the eBook Holt Physics Additional Practice Problem 17a Answers
  - The Rise of Digital Reading Holt Physics Additional Practice Problem 17a Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Additional Practice Problem 17a Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Physics Additional Practice Problem 17a Answers
  - User-Friendly Interface

## Holt Physics Additional Practice Problem 17a Answers

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4. Exploring eBook Recommendations from Holt Physics Additional Practice Problem 17a Answers
  - Personalized Recommendations
  - Holt Physics Additional Practice Problem 17a Answers User Reviews and Ratings
  - Holt Physics Additional Practice Problem 17a Answers and Bestseller Lists
5. Accessing Holt Physics Additional Practice Problem 17a Answers Free and Paid eBooks
  - Holt Physics Additional Practice Problem 17a Answers Public Domain eBooks
  - Holt Physics Additional Practice Problem 17a Answers eBook Subscription Services
  - Holt Physics Additional Practice Problem 17a Answers Budget-Friendly Options
6. Navigating Holt Physics Additional Practice Problem 17a Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Physics Additional Practice Problem 17a Answers Compatibility with Devices
  - Holt Physics Additional Practice Problem 17a Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Physics Additional Practice Problem 17a Answers
  - Highlighting and Note-Taking Holt Physics Additional Practice Problem 17a Answers
  - Interactive Elements Holt Physics Additional Practice Problem 17a Answers
8. Staying Engaged with Holt Physics Additional Practice Problem 17a Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Physics Additional Practice Problem 17a Answers
9. Balancing eBooks and Physical Books Holt Physics Additional Practice Problem 17a Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Physics Additional Practice Problem 17a Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Physics Additional Practice Problem 17a Answers
  - Setting Reading Goals Holt Physics Additional Practice Problem 17a Answers
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Holt Physics Additional Practice Problem 17a Answers
  - Fact-Checking eBook Content of Holt Physics Additional Practice Problem 17a Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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