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82-85. An airplane traveling at 70 m/s lands on a straight runway and has a deceleration described by the graph. Determine the time t' and the distance traveled for it to reach a speed of 5 m/s. Construct the $v-t$ and $s-t$ graphs for this time interval, $0 \leq t \leq t'$.



$v-t$ Graph: For the time interval $0 \leq t < 5$ s, the initial condition is $v = 70$ m/s when $t = 0$ s.

$$\begin{aligned} \left(\frac{dv}{dt} \right) &= a \\ \int_{70 \text{ m/s}}^v dv &= \int_0^t -10 dt \\ v &= (-10t + 70) \text{ m/s} \end{aligned}$$

When $t = 5$ s,

$$v_{5 \text{ s} \rightarrow 5 \text{ s}} = -10(5) + 70 = 20 \text{ m/s}$$

For the time interval $5 \text{ s} < t \leq t'$, the initial condition is $v = 20$ m/s when $t = 5$ s.

$$\begin{aligned} \left(\frac{dv}{dt} \right) &= a \\ \int_{20 \text{ m/s}}^v dv &= \int_5^t -4 dt \\ v &= (-4t + 40) \text{ m/s} \end{aligned}$$

When $v = 5$ m/s,

$$5 = -4t' + 40$$

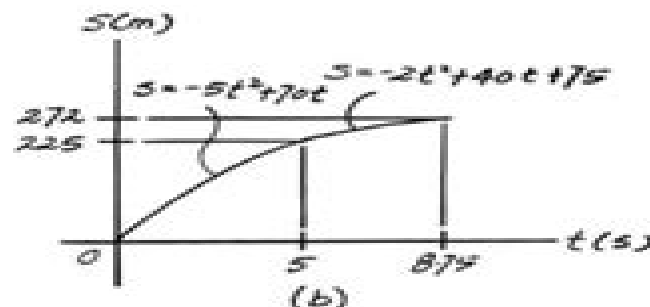
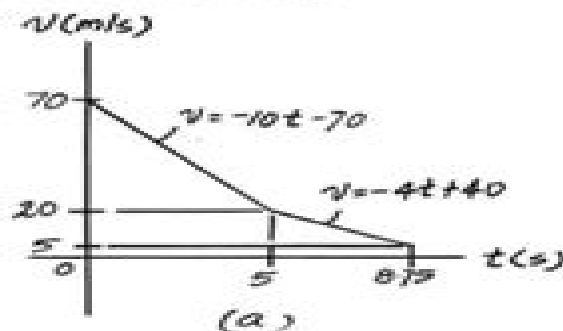
$$t' = 8.75 \text{ s}$$

Ans.

Also, the change in velocity is equal to the area under the $a-t$ graph. Thus,

$$\begin{aligned} \Delta v &= \int a dt \\ 5 - 70 &= -[5(10) + 4(t' - 5)] \\ t' &= 8.75 \text{ s} \end{aligned}$$

The $v-t$ graph is shown in Fig. a.



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R. C. Hibbeler



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Table of Contents Hibbeler Dynamics Chapter 12 Solutions

1. Understanding the eBook Hibbeler Dynamics Chapter 12 Solutions
 - The Rise of Digital Reading Hibbeler Dynamics Chapter 12 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Dynamics Chapter 12 Solutions
 - 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 Hibbeler Dynamics Chapter 12 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Dynamics Chapter 12 Solutions
 - Personalized Recommendations
 - Hibbeler Dynamics Chapter 12 Solutions User Reviews and Ratings
 - Hibbeler Dynamics Chapter 12 Solutions and Bestseller Lists
5. Accessing Hibbeler Dynamics Chapter 12 Solutions Free and Paid eBooks
 - Hibbeler Dynamics Chapter 12 Solutions Public Domain eBooks
 - Hibbeler Dynamics Chapter 12 Solutions eBook Subscription Services
 - Hibbeler Dynamics Chapter 12 Solutions Budget-Friendly Options

6. Navigating Hibbeler Dynamics Chapter 12 Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Hibbeler Dynamics Chapter 12 Solutions Compatibility with Devices
 - Hibbeler Dynamics Chapter 12 Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hibbeler Dynamics Chapter 12 Solutions
 - Highlighting and Note-Taking Hibbeler Dynamics Chapter 12 Solutions
 - Interactive Elements Hibbeler Dynamics Chapter 12 Solutions
8. Staying Engaged with Hibbeler Dynamics Chapter 12 Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hibbeler Dynamics Chapter 12 Solutions
9. Balancing eBooks and Physical Books Hibbeler Dynamics Chapter 12 Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hibbeler Dynamics Chapter 12 Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hibbeler Dynamics Chapter 12 Solutions
 - Setting Reading Goals Hibbeler Dynamics Chapter 12 Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hibbeler Dynamics Chapter 12 Solutions
 - Fact-Checking eBook Content of Hibbeler Dynamics Chapter 12 Solutions
 - 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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