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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.

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

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.

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

When  $v = 5$  m/s,

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

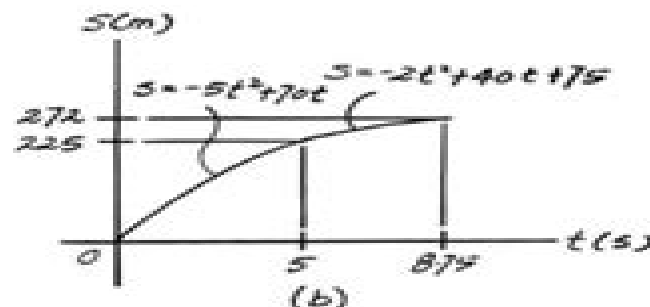
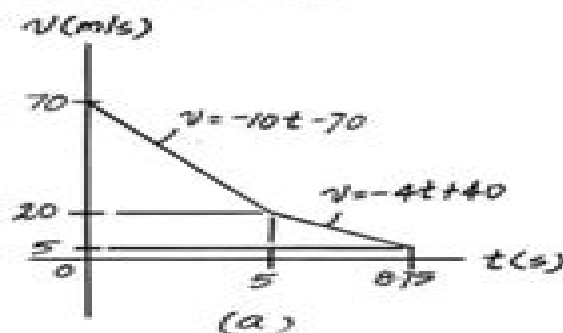
$$t' = 8.75 \text{ s}$$

**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.



# Hibbeler Dynamics Chapter 12 Solutions

**SA Adler**



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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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