


3/1  $v_2^2 - v_1^2 = 2a(x_2 - x_1)$   
 $0^2 - \left(\frac{100}{3.2}\right)^2 = 2a_x(50)$ ,  $a_x = -7.72 \text{ m/s}^2$   


$\Sigma F_x = ma_x$ :  $-4F = 1500(-7.72)$   
 $F = 2870 \text{ N}$

3/2  $50(9.81) \text{ N}$   $\Sigma F_y = 0$ :  $N - 50(9.81) \cos 15^\circ = 0$   
 $N = 474 \text{ N}$  Throughout

(a)  $P = 0$   
 Equilibrium check:  
 $\Sigma F_x = 0$ :  $F - 50(9.81) \sin 15^\circ = 0$   
 $F = 127.9 \text{ N}$

$F_{\max} = \mu_s N = 0.2(474) = 94.8 \text{ N} < F$ : motion  $\checkmark$   
 $\Sigma F_x = ma_x$ :  $0.15(474) - 50(9.81) \sin 15^\circ = 50a_x$   
 $a_x = -1.118 \text{ m/s}^2$

(b)  $P = 150 \text{ N}$ ; Equilibrium check:  
 $\Sigma F_y = 0$ :  $150 + F - 50(9.81) \sin 15^\circ = 0$


$F = -23.9 \text{ N}$ ,  $|F| < F_{\max}$  so no motion:  $a = 0$


(c)  $P = 300 \text{ N}$ ; Equilibrium check yields  $F = -173.0 \text{ N}$   
 $|F| > F_{\max}$ , so motion  $\checkmark$ ,  $F = F_k \checkmark$ .  
 $\Sigma F_x = ma_x$ :  $300 - 0.15(474) - 50(9.81) \sin 15^\circ = 50a_x$   
 $a_x = 2.04 \text{ m/s}^2$

3/3  $80 \text{ lb}$   $\Sigma F_y = 0$ :  $N - 80 \cos 20^\circ = 0$   
 $N = 75.2 \text{ lb}$   
 $\Sigma F_x = ma_x$ :  
 $-0.25(75.2) - 80 \sin 20^\circ = \frac{80}{32.2} a$   
 $a = -18.58 \text{ ft/sec}^2$

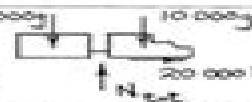
$v = v_0 + at$ :  $0 = 30 - 18.58t$ ,  $t = 1.615 \text{ sec}$   
 $v^2 = v_0^2 + 2a(s - s_0)$ :  $0^2 = 30^2 + 2(-18.58)d$   
 $d = 24.2 \text{ ft}$

$v^2 = v_0^2 + 2a(s - s_0)$ :  $15^2 = 30^2 + 2(-18.58)d'$   
 $d' = 18.17 \text{ ft}$


3/4  $300,000(9.81) \text{ N}$   
  
 $\Sigma F_x = ma_x$ :  
 $3(240,000) - 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$   
 $a_x = 2.31 \text{ m/s}^2$

$v^2 = 2a_x s$ :  $\left(\frac{220}{3.6}\right)^2 = 2(2.31)s$ ,  $s_x = 807 \text{ m}$   
  
 $\Sigma F_x = ma_x$ :  
 $3(240,000) + 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$   
 $a_x = 2.49 \text{ m/s}^2$


$v^2 = 2a_x s$ :  $\left(\frac{220}{3.6}\right)^2 = 2(2.49)s$ ,  $s_x = 751 \text{ m}$

3/5 For entire unit:  $20,000 \text{ kg}$   $10,000 \text{ kg}$   
 $\Sigma F = ma$ :  $20,000 = 30,000a$   
 $a = 0.667 \text{ m/s}^2$   


For trailer alone,  $T = 20,000(0.667) = 13,330 \text{ N}$   
 or  $T = 13.33 \text{ kN}$   


3/6  $\Sigma F_x = ma_x$ :  $mg \sin 40^\circ - \mu_k mg \cos 40^\circ = ma$   
 $a = 9.81(\sin 40^\circ - \mu_k \cos 40^\circ)$   
 $= 6.31 - 7.51 \mu_k$   


For constant accel.  $s = v_0 t + \frac{1}{2}at^2$ :  
 $20 = 0 + \frac{1}{2}(6.31 - 7.51 \mu_k)2.58^2$   
 $\mu_k = 0.0595$

3/7  $\Sigma F = ma$ :  $T - 100 = \frac{100}{32.2} a$   
 (a)  $T \uparrow$   $150 - T = \frac{100}{32.2} a$   
 $50 = \frac{200}{32.2} a$ ,  $a = \frac{32.2}{2} = 16.10 \frac{\text{ft}}{\text{sec}^2}$   


(b)  $150 - 100 = \frac{100}{32.2} a$ ,  $a = \frac{32.2}{2} = 16.10 \frac{\text{ft}}{\text{sec}^2}$   


# Meriam Dynamics Solutions Chapter 3

**Daniela Niemeyer**



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## Table of Contents Meriam Dynamics Solutions Chapter 3

1. Understanding the eBook Meriam Dynamics Solutions Chapter 3
  - The Rise of Digital Reading Meriam Dynamics Solutions Chapter 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Meriam Dynamics Solutions Chapter 3
  - 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 Meriam Dynamics Solutions Chapter 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Meriam Dynamics Solutions Chapter 3
  - Personalized Recommendations
  - Meriam Dynamics Solutions Chapter 3 User Reviews and Ratings
  - Meriam Dynamics Solutions Chapter 3 and Bestseller Lists
5. Accessing Meriam Dynamics Solutions Chapter 3 Free and Paid eBooks
  - Meriam Dynamics Solutions Chapter 3 Public Domain eBooks
  - Meriam Dynamics Solutions Chapter 3 eBook Subscription Services
  - Meriam Dynamics Solutions Chapter 3 Budget-Friendly Options
6. Navigating Meriam Dynamics Solutions Chapter 3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Meriam Dynamics Solutions Chapter 3 Compatibility with Devices
  - Meriam Dynamics Solutions Chapter 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Meriam Dynamics Solutions Chapter 3
  - Highlighting and Note-Taking Meriam Dynamics Solutions Chapter 3
  - Interactive Elements Meriam Dynamics Solutions Chapter 3
8. Staying Engaged with Meriam Dynamics Solutions Chapter 3

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Meriam Dynamics Solutions Chapter 3
- 9. Balancing eBooks and Physical Books Meriam Dynamics Solutions Chapter 3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Meriam Dynamics Solutions Chapter 3
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Meriam Dynamics Solutions Chapter 3
  - Setting Reading Goals Meriam Dynamics Solutions Chapter 3
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Meriam Dynamics Solutions Chapter 3
  - Fact-Checking eBook Content of Meriam Dynamics Solutions Chapter 3
  - 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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