

1/1

$$(a) \quad m = \frac{W}{g} = \frac{3600}{32.2} = \underline{111.8 \text{ slugs}}$$

$$(b) \quad W = 3600 \text{ lb} \left[\frac{4.4482 \text{ N}}{\text{lb}} \right] = \underline{16,010 \text{ N}}$$

$$(c) \quad m = \frac{W}{g} = \frac{16,010}{9.81} = \underline{1632 \text{ kg}}$$

$$\left(\text{or } m = 111.8 \text{ slugs} \left[\frac{14.594 \text{ kg}}{\text{slug}} \right] = 1632 \text{ kg} \right)$$

1/2 For a 180-lb person:

$$W = mg : 180 \text{ lb} = m (32.2 \text{ ft/sec}^2)$$

$$180 \text{ lb} \left(\frac{4.4482 \text{ N}}{\text{lb}} \right) = \underline{801 \text{ N}}$$

$$W = mg : 801 \text{ N} = m (9.81 \text{ m/s}^2)$$

$$m = \underline{81.6 \text{ kg}}$$

$$1/3 \quad \underline{V_1 = 15 \left(\frac{5}{16} \hat{i} + \frac{3}{8} \hat{j} \right) = 12 \hat{i} + 9 \hat{j}}$$

$$\underline{V_2 = 12 (-\cos 60^\circ \hat{i} + \sin 60^\circ \hat{j}) = -6 \hat{i} + 10.39 \hat{j}}$$

$$\underline{V_1 + V_2 = 15 + 12 = 27}$$

$$\underline{V_1 + V_2 = (12-6) \hat{i} + (9+10.39) \hat{j} = 6 \hat{i} + 19.39 \hat{j}}$$

$$\underline{V_1 - V_2 = (12-(-6)) \hat{i} + (9-10.39) \hat{j} = 18 \hat{i} - 1.39 \hat{j}}$$

$$\underline{V_1 \times V_2 = (12 \hat{i} + 9 \hat{j}) \times (-6 \hat{i} + 10.39 \hat{j})}$$

$$= (24.7 + 54) \hat{k} = \underline{178.7 \hat{k}}$$

$$\underline{V_2 \times V_1 = - (V_1 \times V_2) = -178.7 \hat{k}}$$

$$\underline{V_1 \cdot V_2 = (12 \hat{i} + 9 \hat{j}) \cdot (-6 \hat{i} + 10.39 \hat{j})}$$

$$= 12(-6) + 9(10.39) = \underline{21.5}$$

1/4 The weight of an average apple is

$$\underline{W = \frac{5 \text{ lb}}{12 \text{ apples}} = 0.417 \text{ lb}}$$

$$\text{Mass in slugs is } m = \frac{W}{g} = \frac{0.417}{32.2} = \underline{0.01294 \text{ slugs}}$$

$$\text{Mass in kg is } m = 0.01294 \text{ slugs} \left(\frac{14.594 \text{ kg}}{1 \text{ slug}} \right) = \underline{0.1888 \text{ kg}}$$

$$\text{Weight in N is } W = mg = 0.1888 (9.8) = \underline{1.853 \text{ N}}$$

These apples weigh closer to 2 N each than to the rule of 1 N each!

1/5

$$\text{Mass of iron sphere } m = \rho V = (7210 \frac{\text{kg}}{\text{m}^3}) \left(\frac{4}{3} \pi (0.050^3) \right) = \underline{3.78 \text{ kg}}$$

$$\text{Force of mutual attraction: } \frac{Gm^2}{d^2}$$

$$\text{Weight of each sphere: } \frac{Gm_E m}{r^2}$$

$$\frac{Gm^2}{d^2} = \frac{Gm_E m}{r^2}, \quad r = d \sqrt{\frac{m_E}{m}} = 0.1 \sqrt{\frac{5.97 \times 10^{24} \text{ kg}}{3.78}} \frac{1}{10^3} = \underline{1.255 (10^3) \text{ km}}$$

1/6



$r = 0.050 \text{ m}$ for all spheres

$$F_G = \frac{Gm_1 m_2}{d_{12}^2} = \frac{G \left(\rho \frac{4}{3} \pi r^3 \right) \left(\rho \frac{4}{3} \pi r^3 \right)}{d_{12}^2} = \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2}$$

$$= \underline{4.38 (10^{-10}) \text{ N}}$$

$$F_c = \frac{Gm_1 m_2}{d_{12}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 \rho_1 \rho_2}{d_{12}^2} = \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(7210)}{1^2}$$

$$= \underline{1.175 (10^{-9}) \text{ N}}$$

$$\underline{R = F_G + F_c = 4.38 (10^{-10}) [-\sin 30^\circ \hat{i} + \cos 30^\circ \hat{j}] + 1.175 (10^{-9}) [\sin 30^\circ \hat{i} + \cos 30^\circ \hat{j}]}$$

$$\underline{R = (3.68 \hat{i} + 13.98 \hat{j}) 10^{-10} \text{ N}}$$

1/7

$$g_h = \frac{Gm_E}{(R+h)^2} = \frac{(3.438 \times 10^8) (4.075 \times 10^{-23})}{[(3757)(5280) + (0.50)(5280)]^2} = \underline{29.9 \text{ ft/sec}^2}$$

$$\text{Mass of man: } m = \frac{W}{g} = \frac{200}{32.174} = \underline{6.22 \text{ slugs}}$$

Absolute weight at $h = 150$ miles:

$$\underline{W_h = mg_h = (6.22)(29.9) = 186.0 \text{ lb}}$$

The terms "zero-g" and "weightless" are definitely misnomers in this instance.

1/8

$$mg = 0.1 mg_0$$

$$\frac{R^2}{(R+h)^2} g_0 = 0.1 g_0$$

$$\text{Solve for } h \text{ to obtain } \underline{h = 2.16 R}$$

Meriam Dynamics 6th Edition Solution Manual

Marco Cascella



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Table of Contents Meriam Dynamics 6th Edition Solution Manual

1. Understanding the eBook Meriam Dynamics 6th Edition Solution Manual
 - The Rise of Digital Reading Meriam Dynamics 6th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Meriam Dynamics 6th Edition Solution Manual
 - 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 6th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Meriam Dynamics 6th Edition Solution Manual

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

- Fact-Checking eBook Content of Meriam Dynamics 6th Edition Solution Manual
- 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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