

1/1

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

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

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

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

1/2

For a 180-lb person:

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

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

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

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

1/3

$$\underline{V_1} = 15 \left( \frac{4}{5} \underline{i} + \frac{3}{5} \underline{j} \right) = 12 \underline{i} + 9 \underline{j}$$

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

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

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

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

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

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

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

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

$$= 12(-6) + 9(10.39) = 21.5$$

1/4

The weight of an average apple is

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

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

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

$$\text{Weight in N is } W = mg = 0.1888 (9.81) = 1.853 \text{ N}$$

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

1/5

Mass of iron sphere  $m = \rho V$ 

$$= (7210 \frac{\text{kg}}{\text{m}^3}) \left( \frac{4}{3} \pi (0.05)^3 \right) = 3.78 \text{ kg}$$

Force of mutual attraction:  $\frac{Gm^2}{d^2}$ Weight of each sphere:  $\frac{Gm_0 m}{r^2}$ 

$$\begin{aligned} \frac{Gm^2}{d^2} &= \frac{Gm_0 m}{r^2}, \quad r = d \sqrt{\frac{m_0}{m}} \\ &= 0.1 \sqrt{\frac{2(4.9 \times 10^{24})}{3.78}} \frac{1}{209} \\ &= 1.258 (10^9) \text{ km} \end{aligned}$$

1/6



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

$$\begin{aligned} F_g &= \frac{Gm_1 m_2}{d_{AC}^2} = \frac{G \left( \rho \frac{4}{3} \pi r^3 \right) \left( \rho \frac{4}{3} \pi r^3 \right)}{d_{AC}^2} \\ &= \frac{6.673 (10^{-11}) \left[ \frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2} \\ &= 4.38 (10^{-10}) \text{ N} \end{aligned}$$

$$\begin{aligned} F_c &= \frac{Gm_1 m_2}{d_{AC}^2} = \frac{G \left[ \frac{4}{3} \pi r^3 \right]^2 \rho^2}{d_{AC}^2} \\ &= \frac{6.673 (10^{-11}) \left[ \frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(7210)}{1^2} \\ &= 1.175 (10^{-9}) \text{ N} \end{aligned}$$

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

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

1/7

$$\begin{aligned} \underline{g_h} &= \frac{Gm_0}{(R+h)^2} \\ &= \frac{(3.438 \times 10^{-30}) (4.075 \times 10^{22})}{[(3151)(5220) + (150)(5220)]^2} = 2.11 \text{ ft/sec}^2 \end{aligned}$$

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

Absolute weight at  $h = 150$  miles:

$$W_h = mg_h = (6.22)(2.11) = 132.0 \text{ lb}$$

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

1/8

$$mg = 0.1 mg_0$$

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

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

# Meriam Kraige Dynamics Solutions 6th Edition

**A Gutmann**



**Meriam Kraige Dynamics Solutions 6th Edition:**

## **Meriam Kraige Dynamics Solutions 6th Edition** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Meriam Kraige Dynamics Solutions 6th Edition**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

<https://staging.conocer.cide.edu/data/detail/HomePages/first%20light%20modern%20bahrain%20and%20its%20heritage.pdf>

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