

1/1

$$6a) m = \frac{W}{g} = \frac{3600}{32.2} = 111.8 \text{ slugs}$$

$$6b) W = 3600 \text{ lb} \left[\frac{4.4482 \text{ N}}{\text{lb}} \right] = 16,014 \text{ N}$$

$$6c) m = \frac{W}{g} = \frac{16,014}{9.81} = 1632 \text{ kg}$$

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

1/2 For a 180-lb person:

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

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

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

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

$$1/3 \quad \underline{V_1} = 15 \left(\frac{4}{5} \underline{i} + \frac{3}{5} \underline{j} \right) = 12 \underline{i} + 9 \underline{j}$$

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

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

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

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

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

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

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

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

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

1/4 The weight of an average apple is

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

$$\text{Mass in slugs is } m = \frac{W}{g} = \frac{0.417}{32.2} = 0.01274 \text{ slugs}$$

$$\text{Mass in kg is } m = 0.01274 \text{ slugs} \left(\frac{14.594 \text{ kg}}{1 \text{ slug}} \right)$$

$$= 0.1858 \text{ kg}$$

$$\text{Weight in N is } W = mg = 0.1858(9.8) = 1.853 \text{ N}$$

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

1/5

$$\text{Mass of iron sphere } m = \rho V$$

$$= (7210 \frac{\text{kg}}{\text{m}^3}) \left(\frac{4}{3} \pi (0.050)^3 \right) = 3.78 \text{ kg}$$

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

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

$$\frac{Gm^2}{d^2} = \frac{Gm_e m}{r^2}, \quad r = d \sqrt{\frac{m_e}{m}}$$

$$= 0.1 \sqrt{\frac{5.97 \times 10^{24} \text{ kg}}{3.78}} \frac{1}{10^3}$$

$$= 1.251 (10^3) \text{ km}$$

1/6

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



$$\underline{F_B} = \frac{Gm_A m_B}{d_{AB}^2} = \frac{G \left(\frac{4}{3} \pi r^3 \right) \left(\frac{4}{3} \pi r^3 \right)}{d_{AB}^2}$$

$$= \frac{6.673(10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8700)(2690)}{1^2}$$

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

$$\underline{F_C} = \frac{Gm_A m_C}{d_{AC}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 \rho_A \rho_C}{d_{AC}^2}$$

$$= \frac{6.673(10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8700)(7200)}{1^2}$$

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

$$\underline{R} = \underline{F_B} + \underline{F_C} = 4.38(10^{-10}) [-\sin 30^\circ \underline{i} + \cos 30^\circ \underline{j}]$$

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

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

1/7

$$g_h = \frac{Gm_e}{(R+h)^2}$$

$$= \frac{(3.439 \times 10^{22}) (4.075 \times 10^{-30})}{[(3951)(5280) + (0.50)(5280)]^2} = 29.9 \text{ ft/sec}^2$$

$$\text{Mass of man: } m = \frac{W}{g} = \frac{260}{32.174} = 6.22 \text{ slugs}$$

Absolute weight at $h = 150$ miles:

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

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

1/8

$$mg = 0.1 mg_0$$

$$\frac{R^3}{(R+h)^2} g_0 = 0.1 g_0$$

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

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R. J. Winkel



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