

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

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

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

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

$$= 0.1888 \text{ kg}$$

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

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

1/5

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

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

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

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

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

$$= 0.1 \sqrt{\frac{5.972 \times 10^{24} \text{ kg}}{3.78}} \frac{1}{10^3}$$

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

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

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

$$= \frac{(3.439 \times 10^3) (4.075 \times 10^{22})}{[(3951)(5280) + (0.50)(5280)]^2} = 29.9 \text{ ft/sec}^2$$

$$\text{Mass of man : } m = \frac{W}{g} = \frac{260}{32.174} = 8.12 \text{ slugs}$$

Absolute weight at $h = 150$ miles :

$$W_h = mg_h = (8.12)(29.9) = 242.8 \text{ lb}$$

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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Nodar Davitashvili, Valeh Bakhshaliev



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web fig 3 0 1 typical smps block diagram fig 3 0 1 shows a block diagram example of a typical smps with an ac mains line input and a regulated dc output the output rectification and filter are isolated from the high frequency switching section by a high frequency transformer and voltage control feedback is via an opto isolator

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web the block diagram of a linear power supply is as shown in the following figure in spite of the above disadvantages linear power supplies are widely used in low noise amplifiers test equipment control circuits in addition they

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web feb 25 2021 fig block diagram of smps the working of smps is clearly explained in the above block diagram and each block is explained properly in the following section input section the input supply of our

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web hence a smps can be used to convert ac to dc such as in a desktop computer power supply or dc to dc either step up or

step down in many different battery powered systems fig 3 0 1 shows a block diagram example of a typical smps with an ac mains line input and a regulated dc output

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web block diagram of a mains operated ac dc smps with output voltage regulation input rectifier stage ac half wave and full wave rectified signals if the smps has an ac input then the first stage is to convert the input to dc this is called rectification an smps with a dc input does not require this stage

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web apr 29 2020 forward converter in a forward converter the choke carries the current when the transistor is conducting as well as when it s not the diode carries the current during the off period of the transistor therefore energy flows into the load during both the periods

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web the figure given below represents the functional block diagram of smps initially the unregulated ac input signal from the source is provided to the input rectifier and filter circuit here the ac input signal is rectified to generate a dc signal and further smoothened to remove high frequency noise component from it

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web smps regulates the output power by varying the on to off time using minimum voltage so that efficiency is very high compared to the linear power supply what is inside a smps fig 1 simple block diagram showing different function of smps

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web 1 answer sorted by 1 you got part of the answer in the comments because mains frequency is lower than the operating frequency of the power supply up to a point the higher the frequency the smaller the magnetics can be typical mains frequencies are well below that point