

Physics XI Newton Physics

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$$\begin{aligned} \text{(1)} \quad F_e &= \frac{k q_1 q_2}{r^2} \\ F_g &= \frac{G m_1 m_2}{r^2} \\ \frac{F_e}{F_g} &= \frac{k q_1 q_2}{G m_1 m_2} = \frac{9 \times 10^9 \times (1.6 \times 10^{-19})^2}{6.67 \times 10^{-11} \times 9.1 \times 1.7 \times 10^{-31}} \\ &= 4.5 \times 10^{40} \end{aligned}$$

$$\begin{aligned} \text{(2)} \quad g &= \frac{GM_e}{R^2} \Rightarrow \frac{6.67 \times 10^{-11} \times 7.34 \times 10^{22}}{(1.75 \times 10^6)^2} \\ &= 1.6 \text{ m s}^{-2} \end{aligned}$$

$$\begin{aligned} \text{(3)} \quad g &= \frac{GM_e}{R_e^2} \Rightarrow M_e = \frac{g R_e^2}{G} \\ &= \frac{9.81 \times (6.37 \times 10^6)^2}{6.67 \times 10^{-11}} \\ &= 6.0 \times 10^{24} \text{ kg} \end{aligned}$$

again

$$\begin{aligned} \rho &= \frac{M}{V} = \frac{6.0 \times 10^{24} \times \frac{4\pi}{3} R_e^3}{4 \times 3.14 \times (6.37 \times 10^6)^3} \\ &= \frac{6.0 \times 10^{24} \times 3}{4 \times 3.14 \times (6.37 \times 10^6)^3} \\ &= 5.5 \times 10^3 \text{ kg m}^{-3} \end{aligned}$$

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