

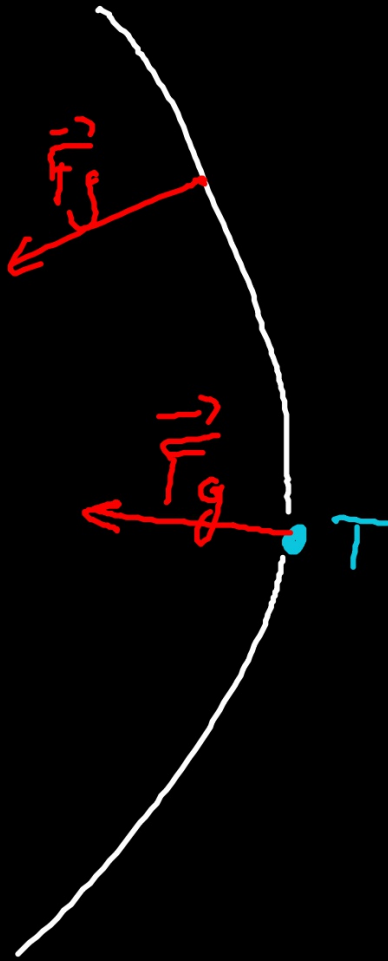
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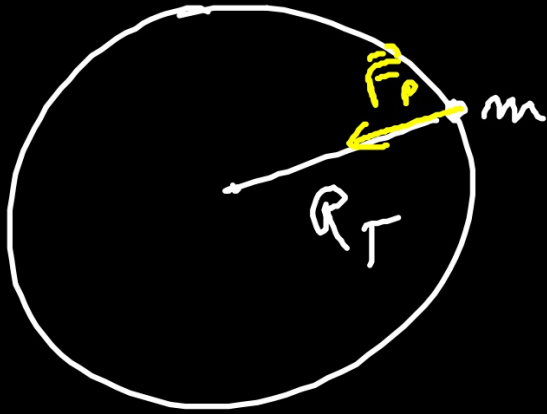


$$\vec{F} = -G \frac{M_s m}{r^2}$$

\vec{v}

$$\vec{F} = mg$$

$$g_T = G \frac{M_T}{R_T^2}$$



$$P = m \cdot g$$
$$= G \frac{M_T m}{R_T^2}$$

$$g_L = G \frac{M_L}{R_L^2}$$

$$M_L = 7,35 \times 10^{22} \text{ kg}$$

$$R_L = 1,738 \times 10^6 \text{ m}$$

$$G = 6,67 \times 10^{-11} \text{ N} \cdot \text{m}^2 / \text{kg}^2$$

$$g_c = 6,67 \cdot 10^{-11} \frac{\text{N} \cdot \text{m}^2}{\text{kg}^2} \frac{7,35 \cdot 10^{22} \text{kg}}{(1,738 \cdot 10^6 \text{m})^2}$$

$$= 16,229 \times 10^{-1} \frac{\text{N} \cdot \cancel{\text{m}^2} \cancel{\text{kg}}}{\cancel{\text{kg}^2} \cancel{\text{m}^2}}$$

$$= 1,62 \text{ m/s}^2 \approx 0,16 g_T$$