



$$F_c = F_g$$

$$m a_c = G \frac{m M_T}{R_T^2}$$

$$a_c = \frac{v_0^2}{R_T}$$

$$\frac{v_0^2}{R_T} = \frac{G M_T}{R_T^2}$$

$$v_0 = \sqrt{\frac{G M_T}{R_T}}$$

$$\frac{N m^2}{kg m} = \frac{kg m^2}{kg s^2}$$

$$v_0 = \sqrt{\frac{6,7 \times 10^{-11} \frac{N m^2}{kg^2} \times 6,0 \times 10^{24} kg}{6,4 \times 10^6 m}} =$$

$$= \sqrt{6,28 \times 10^7 \frac{m^2}{s^2}} = 7,9 \times 10^3 \frac{m}{s}$$

$$v_0 = \sqrt{\frac{GM}{R}} \quad \text{VELOCITĂ ORBITALE}$$