Problema 894: Calcula el radio de Marte sabiendo que: $g_M = 3,72 N/kg$ y $M_M = 6,419 \cdot 10^{23} kg$ y $G = 6,67 \cdot 10^{-11} N \cdot m^2 \cdot kg^{-2}$

$$F = G \cdot \frac{m \cdot M_M}{R_M^2} = m \cdot g_M$$

$$g_M = G \cdot \frac{M_M}{R_M^2}$$

$$R_M = \sqrt{\frac{G \cdot M_M}{g_M}} = \sqrt{\frac{6,67 \cdot 10^{-11} N \cdot m^2 \cdot kg^{-2} \cdot 6,419 \cdot 10^{23} kg}{3,72 N \cdot kg^{-1}}} = 3,393 \cdot 10^6 m = \underline{3393 km}$$