

81064, Engineering / Mechanical Engineering/Completed

$$P=m \cdot g \quad P=1000\text{ lbf}=4448\text{ N} \quad g=32.174 \text{ ft/s}^2=9.8\text{ m/s}^2$$

$$m=P/g=4448,2 / 9,8=453,9\text{ kg}$$

$$P_{\text{moon}}=m \cdot g_{\text{moon}} \quad g_{\text{moon}}= 1.62 \text{ m/s}^2$$

$$P_{\text{moon}}=453,9 \cdot 1.62=735,3\text{ N}$$