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$$F = \frac{Gm_e m_m}{d^2} = \frac{6.673(10^{-11})(5.976 \cdot 10^{24})^2 (1)(0.0123)}{(384\,398 \cdot 10^3)^2}$$

$$= \underline{1.984(10^{20})\ \text{N}}$$

$$F = 1.984(10^{20})\ \text{N}\left(\frac{1\ \text{lb}}{4.4482\ \text{N}}\right) = \underline{4.46(10^{19})\ \text{lb}}$$