1.10 Assume the following:
$$\rho := 13.5 \frac{gm}{cm^3}$$
 $g := 9.8 \frac{m}{s^2}$

$$P := 400bar \qquad h := \frac{P}{cm^3} \qquad h = 302.3 m \quad Ans.$$

1.11 The force on a spring is described by: $F = K_s x$ where K_s is the spring constant. First calculate K based on the earth measurement then g_{Mars} based on spring measurement on Mars. On Earth:

$$g_{Mars} := 0.40em$$
 $F_{Mars} := K \cdot x$ $F_{Mars} = 4 \times 10^{-3} \text{ mK}$ $g_{Mars} := \frac{F_{Mars}}{mass}$ $g_{Mars} = 0.01 \frac{mK}{kg}$ Ans.

1.12 Given:
$$\frac{d}{dz}P = -\rho \cdot g$$
 and: $\rho = \frac{M \cdot P}{R \cdot T}$ Substituting: $\frac{d}{dz}P = -\frac{M \cdot P}{R \cdot T} \cdot g$

Separating variables and integrating:
$$\int_{P_{sea}}^{P_{Denver}} \frac{1}{P} dP = \int_{0}^{z_{Denver}} -\left(\frac{M \cdot g}{R \cdot T}\right) dz$$
After integrating:
$$\ln\left(\frac{P_{Denver}}{P_{sea}}\right) = \frac{-M \cdot g}{R \cdot T} \cdot z_{Denver}$$

Taking the exponential of both sides and rearranging:
$$P_{Denver} = P_{sea} \cdot e^{\left(\frac{-M \cdot g}{R \cdot T} \cdot z_{Denver}\right)}$$

$$P_{sea} := 1 atm \qquad M := 29 \frac{gm}{mol} \qquad g := 9.8 \frac{m}{s^2}$$

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DJ Losen



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