

1.10 Assume the following:

$$\rho := 13.5 \frac{\text{gm}}{\text{cm}^3}$$

$$g := 9.8 \frac{\text{m}}{\text{s}^2}$$

$$P := 400 \text{bar}$$

$$h := \frac{P}{\rho \cdot g}$$

$$h = 302.3 \text{m} \quad \text{Ans.}$$

1.11 The force on a spring is described by: $F = K_s \cdot x$ 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:

$$F = \text{mass} \cdot g = K \cdot x$$

$$\text{mass} := 0.40 \text{kg}$$

$$g := 9.81 \frac{\text{m}}{\text{s}^2}$$

$$x := 1.08 \text{cm}$$

$$F := \text{mass} \cdot g$$

$$F = 3.924 \text{N}$$

$$K_s := \frac{F}{x}$$

$$K_s = 363.333 \frac{\text{N}}{\text{m}}$$

On Mars:

$$x := 0.40 \text{cm}$$

$$F_{\text{Mars}} := K \cdot x$$

$$F_{\text{Mars}} = 4 \times 10^{-3} \text{mK}$$

$$g_{\text{Mars}} := \frac{F_{\text{Mars}}}{\text{mass}}$$

$$g_{\text{Mars}} = 0.01 \frac{\text{mK}}{\text{kg}}$$

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:

$$\int_{P_{\text{sea}}}^{P_{\text{Denver}}} \frac{1}{P} dP = \int_0^{z_{\text{Denver}}} -\left(\frac{M \cdot g}{R \cdot T}\right) dz$$

After integrating:

$$\ln\left(\frac{P_{\text{Denver}}}{P_{\text{sea}}}\right) = -\frac{M \cdot g}{R \cdot T} \cdot z_{\text{Denver}}$$

Taking the exponential of both sides and rearranging:

$$P_{\text{Denver}} = P_{\text{sea}} \cdot e^{\left(\frac{-M \cdot g}{R \cdot T} \cdot z_{\text{Denver}}\right)}$$

$$P_{\text{sea}} := 1 \text{atm}$$

$$M := 29 \frac{\text{gm}}{\text{mol}}$$

$$g := 9.8 \frac{\text{m}}{\text{s}^2}$$

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