

$$P_{\text{atm}} := 30.12 \text{ in}_\text{Hg} \quad A := \frac{\pi}{4} \cdot D^2 \quad A = 1.227 \text{ ft}^2$$

(a) $F := P_{\text{atm}} \cdot A + \text{mass} \cdot g \quad F = 2.8642 \times 10^3 \text{ lbf} \quad \text{Ans.}$

(b) $P_{\text{abs}} := \frac{F}{A} \quad P_{\text{abs}} = 16.208 \text{ psia} \quad \text{Ans.}$

(c) $\Delta l := 1.7 \text{ ft} \quad \text{Work} := F \cdot \Delta l \quad \text{Work} = 4.8691 \times 10^3 \text{ ft} \cdot \text{lbf} \quad \text{Ans.}$

$$\Delta P_E := \text{mass} \cdot g \cdot l \quad \Delta P_E = 424.9 \text{ ft} \cdot \text{lbf} \quad \text{Ans.}$$

1.16

$$D := 0.47 \text{ m} \quad \text{mass} := 150 \text{ kg} \quad g := 9.813 \frac{\text{m}}{\text{s}^2}$$

$$P_{\text{atm}} := 101.57 \text{ kPa} \quad A := \frac{\pi}{4} \cdot D^2 \quad A = 0.173 \text{ m}^2$$

(a) $F := P_{\text{atm}} \cdot A + \text{mass} \cdot g \quad F = 1.909 \times 10^4 \text{ N} \quad \text{Ans.}$

(b) $P_{\text{abs}} := \frac{F}{A} \quad P_{\text{abs}} = 110.054 \text{ kPa} \quad \text{Ans.}$

(c) $\Delta l := 0.83 \text{ m} \quad \text{Work} := F \cdot \Delta l \quad \text{Work} = 15.848 \text{ kJ} \quad \text{Ans.}$

$$\Delta E_P := \text{mass} \cdot g \cdot l \quad \Delta E_P = 1.222 \text{ kJ} \quad \text{Ans.}$$

1.18

$$\text{mass} := 1250 \text{ kg} \quad u := 40 \frac{\text{m}}{\text{s}}$$

$$E_K := \frac{1}{2} \text{mass} \cdot u^2 \quad E_K = 1000 \text{ kJ} \quad \text{Ans.}$$

$$\text{Work} := E_K \quad \text{Work} = 1000 \text{ kJ} \quad \text{Ans.}$$

1.19

$$\dot{W} = \frac{\text{mass} \cdot g \cdot h}{\text{time}} \cdot 0.91 \cdot 0.92$$

$$\dot{W} := 200 \text{ W} \quad g := 9.8 \frac{\text{m}}{\text{s}^2} \quad \Delta h := 50 \text{ m}$$

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