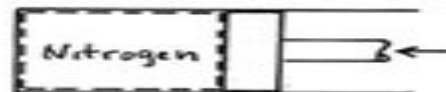


PROBLEM 1.33*



$$\begin{aligned} P_1 &= 15 \text{ lbf/in}^2 \\ V_1 &= 2.5 \text{ ft}^3 \\ P_2 &= 100 \text{ lbf/in}^2 \\ V_2 &= 1.5 \text{ ft}^3 \end{aligned}$$

The pressure-volume relation is linear during the process. Thus

$$P = P_1 + \left(\frac{P_2 - P_1}{V_2 - V_1} \right) (V - V_1)$$

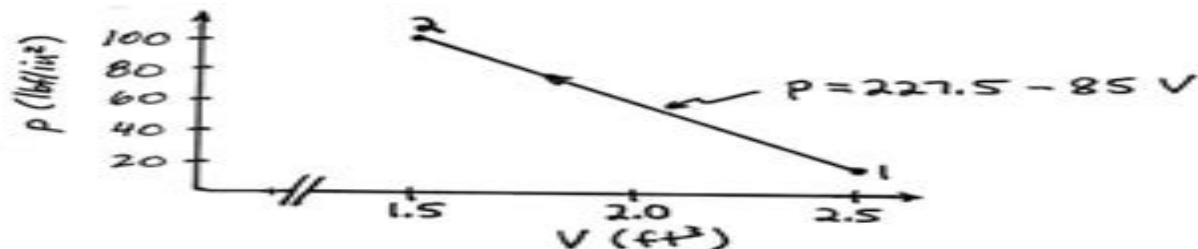
Or, using given data

$$\begin{aligned} P &= 15 \frac{\text{lbf}}{\text{in}^2} + \frac{(100 - 15) \text{ lbf/in}^2}{(1.5 - 2.5) \text{ ft}^3} (V - 2.5) \text{ ft}^3 \\ &= 227.5 - 85V \end{aligned}$$

When $V = 2.1 \text{ ft}^3$

$$P = 227.5 - 85(2.1) = 49 \text{ lbf/in}^2 \longleftarrow P$$

On p - V coordinates



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Victor M. Corman



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