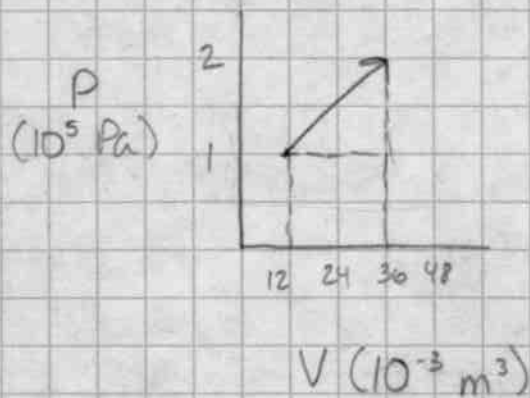


P #L

Ch. 12



$$W = ?$$

Use area under curve

$$W = \text{area}_{\Delta} + \text{area}_{\square}$$

$$= -\left(\frac{1}{2} \cdot b \cdot h + b \cdot h\right)$$

$$= -\left(\frac{1}{2} \cdot (24 \times 10^{-3} \text{ m}^3) (1 \times 10^5 \text{ Pa}) + (24 \times 10^{-3} \text{ m}^3) (1 \times 10^5 \text{ Pa})\right)$$

$$W = -3600 \text{ J}$$