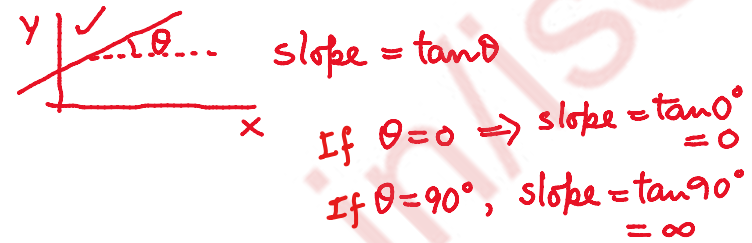


Class XI, THERMODYNAMICS



INDICATOR DIAGRAM AND CALCULATION OF WORK

1. Isobaric Process:

$$P = \text{const.}$$

2. Isochoric Process:

$$V = \text{const}$$

3. Isothermal Process:

$$T = \text{const}$$

$$PV = K \Rightarrow P = \frac{K}{V}$$

$$P \propto \frac{1}{V}$$

4. Adiabatic Process:

$$\Delta Q = 0 \Rightarrow PV^\gamma = K ; \gamma > 1$$

$$P = \frac{K}{V^\gamma} \Rightarrow P \propto \frac{1}{V^\gamma}$$

$$V \uparrow, P \downarrow$$

