adiabtic scall  

$$T_A = T_C$$
 and  $T_B = T_C$   
 $T_A = T_B$   
 $T_A = T_B$ 

TEMPERATURE: "Temperature of a system is the property which determines whether or not it will be in thermal equilibrium with other system. When two or more systems are in thermal equilibrium, they are said to have the same temperature".





A and B are in thermal equilibrium.

Equation of state of a system: P, V, T relates

EQUATION OF STATE: The equation which connects the

thermodynamic variables (pressure, temperature and volume) for a

system is called its equation of State.

PV= MRT => P= MRI V No. of moles universal Gas Constant