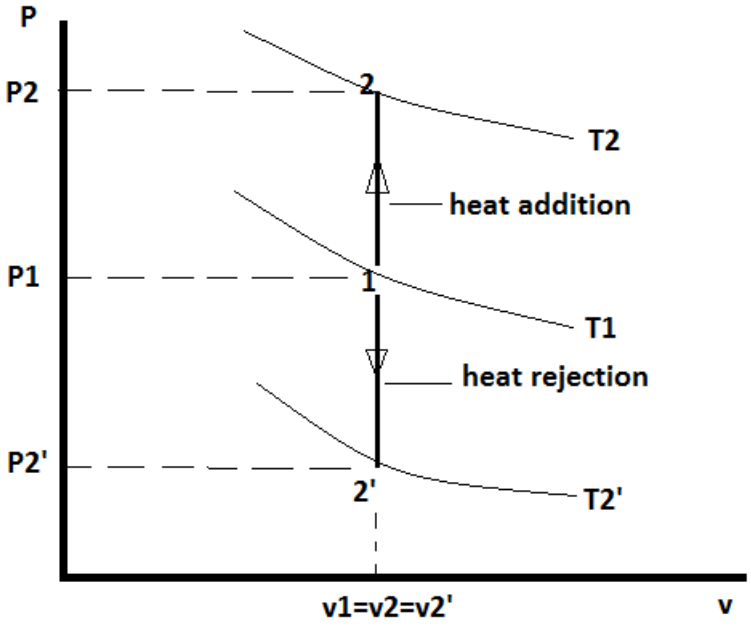
NON-FLOW PROCESSES

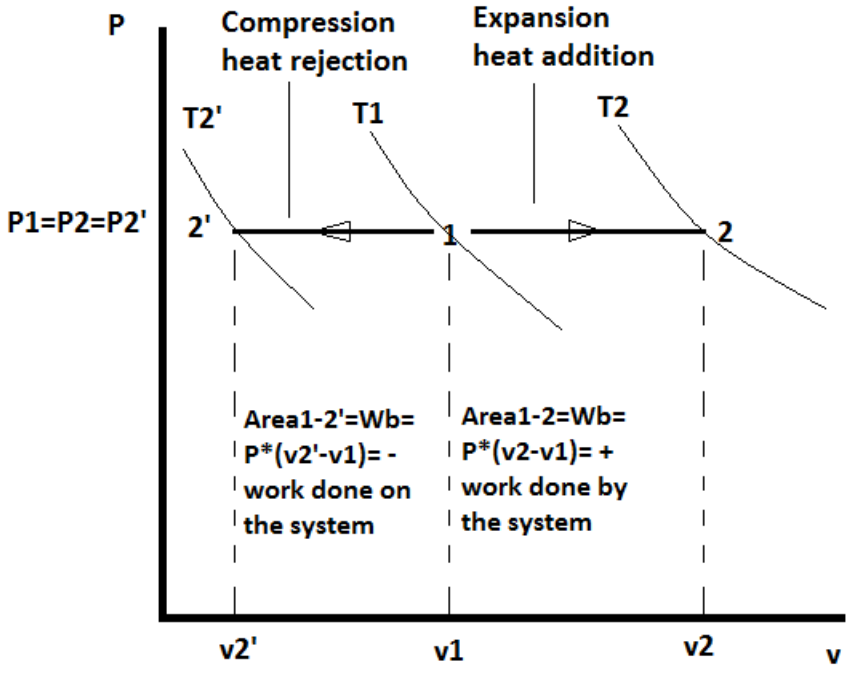
Working fluid: ideal gas

System: closed

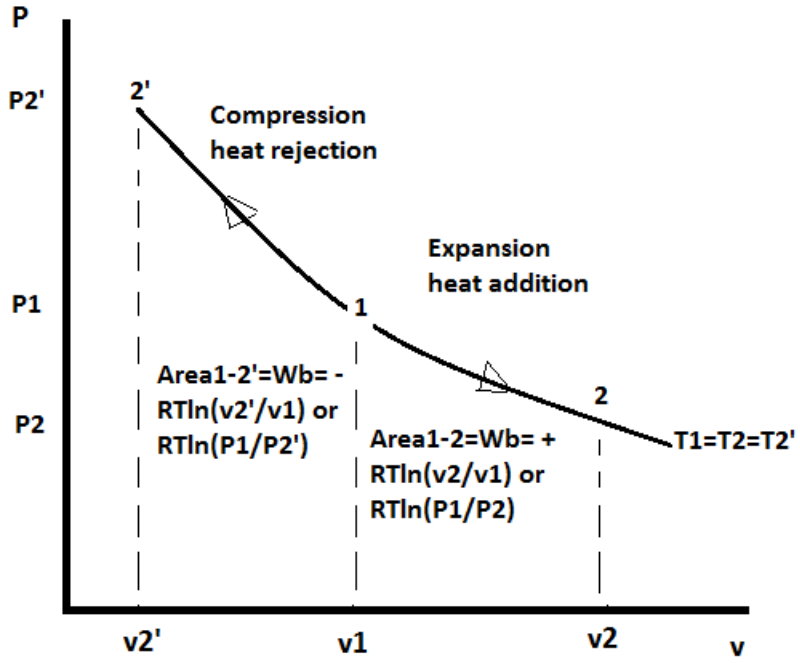
1. Process: Reversible constant volume



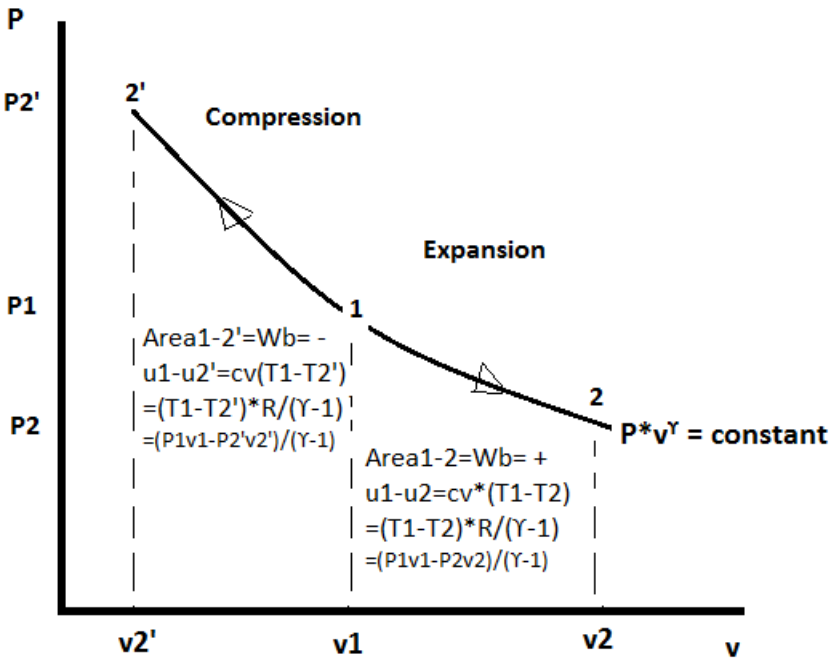
2. Process: Reversible constant pressure



Process: Reversible constant temperature (isothermal)

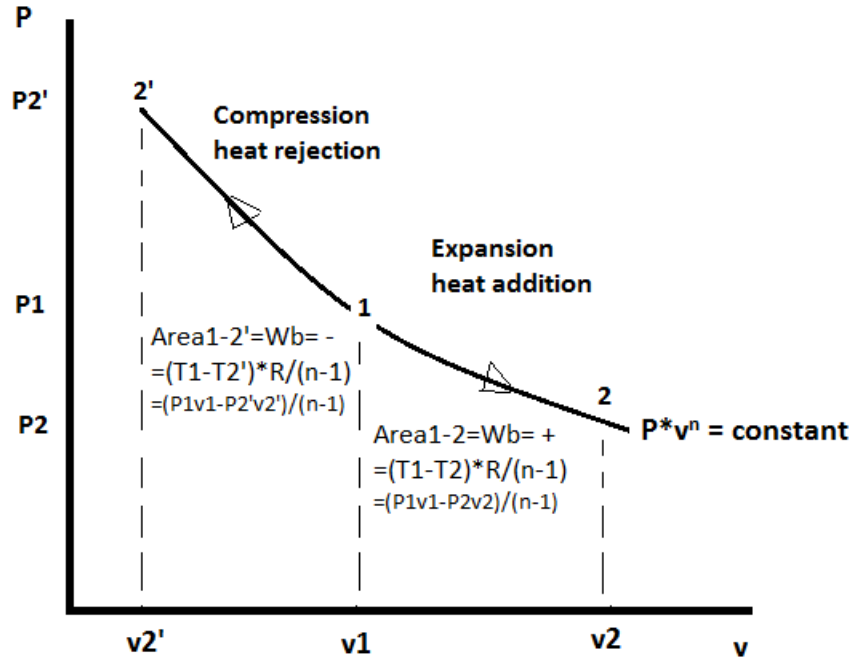


Process: Reversible adiabatic



Q = 0 and P, V, T change during reversible adiabatic process

Process: Polytropic



$P*v^n$ = constant
n ≠ 0, 1, ϒ, ∞

P, V, T change during polytropic process