- There are 5 different thermodynamic processes.

Disabolic or Isentropic

Disothermal - (Constant temperature) process

Disobaric - (Constant pressure) process

Disochoric - (Constant Volume) process

Disochoric - (Constant Volume) process

Disothermal process

Adiabatic Process

$$PV = Constant$$

$$TV = Constant$$

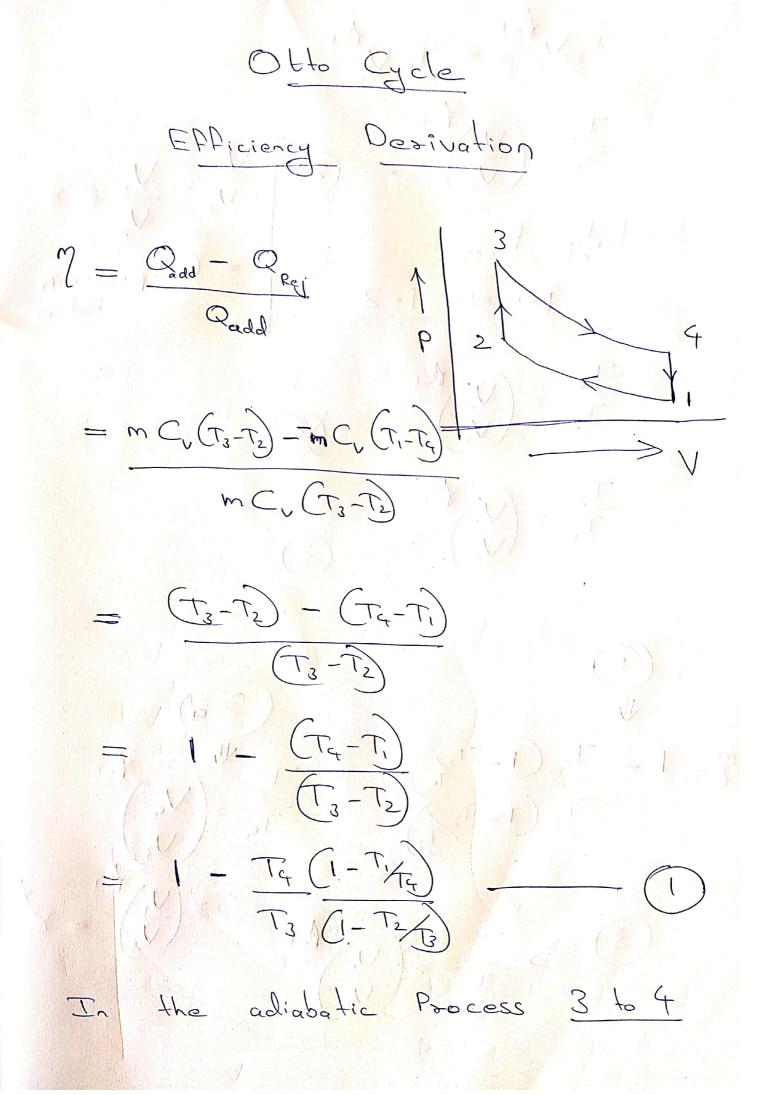
$$P = Constant$$

$$P_{a} V_{a} = P_{b} V_{b}^{1} = P_{c} V_{c}^{1}$$

$$P_{b} V_{a} = P_{c} V_{c}^{1}$$

$$P_{c} V_{a}^{1} = P_{c} V_{c}^{1}$$

Heat addition in different P20 C08263 Isothermal process > P, V, In { V2 } the transfer of the state of th PV = Constant => P2V2 ln { \\ \frac{\V_2}{\V}} (2) Constant Volume = Q = m C (T2-T) 3) Constant Pacerner 3 Bdd = m Cp (T2-T)



$$T_{3} V_{3} = T_{4} V_{4}$$

$$T_{3} = \begin{pmatrix} V_{4} \\ V_{3} \end{pmatrix} \qquad 2 \qquad V_{4} = V_{1} = \delta$$

$$Similarly From process 1-2
$$T_{1} = \begin{pmatrix} V_{2} \\ V_{3} \end{pmatrix} \qquad = Compression$$

$$Process 1-2$$

$$T_{2} = \begin{pmatrix} V_{1} \\ V_{2} \end{pmatrix} \qquad 3$$

$$T_{3} = \begin{pmatrix} V_{4} \\ V_{2} \end{pmatrix} \qquad 3$$

$$T_{4} = \begin{pmatrix} V_{4} \\ V_{2} \end{pmatrix} \qquad = \begin{pmatrix} V_{4} \\ V_{3} \end{pmatrix} \qquad = \begin{pmatrix} V_{4} \\ V_{3} \end{pmatrix} \qquad = \begin{pmatrix} V_{4} \\ V_{3} \end{pmatrix} \qquad = \begin{pmatrix} V_{4} \\ V_{2} \end{pmatrix} \qquad = \delta$$

$$3 \Rightarrow T_{2} = \begin{pmatrix} V_{1} \\ V_{2} \end{pmatrix} \qquad = \delta$$$$

