j EDOZEIN IZAN DAMEKE

$$W \qquad (i) \quad \delta W = -pdV \qquad \qquad \begin{cases} \delta W = -\frac{C}{Vi} dV \Rightarrow W = -C \int \frac{1}{Vi} dV \end{cases}$$

$$PV^{j} = C \Rightarrow P = \frac{C}{Vi}$$

$$W = \frac{1}{(j-1)} (p_2 V_2 - p_4 V_4)$$

$$W = \frac{1}{(\dot{q}-1)} nR \left(T_2 - T_1\right)$$

$$\Delta U = C_V(T_2 - T_4)$$

DU = wnR (T2-T4)

Q=
$$nR(T_2-T_4)\left[\omega-\frac{1}{(j-1)}\right]$$

$$Q = \frac{(T_2 - T_4)}{(j-1)} \left[j(\omega - C_p) \right]$$

$$Q = \frac{(T_2 - T_4)}{(j-1)} nR \left[j(\omega - C_p) \right]$$