Carnot Cycle Efficiency Desiration 1-2 = Adiabatic Isentappic Compression 2-3 => Isothermal Heat Addition 3-4 >> Adjabatic / Isentropic ex pansion 4-1 => Isothermal Heat Rejection P2 V2 In { V3 } - P, V, In { V1 P2 V2 In { V3 } - mRT, In {Va} TH = Thighes T= Tlowes $mRT_2 l_n \left\{ \frac{V_3}{V_2} \right\}$

$$\mathcal{N} = 1 - \frac{T_1}{T_2} \frac{\ln \left\{ \frac{V_4}{V_3} \right\}}{\ln \left\{ \frac{V_3}{V_2} \right\}} - \frac{1}{T_3}$$
From ediabatic processes
$$\frac{1}{T_2} = \frac{1}{T_3} = \frac{1}{T_4} = \frac{1$$

