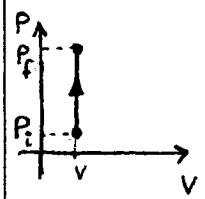
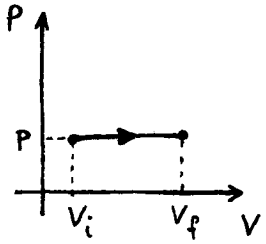
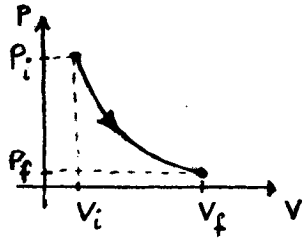
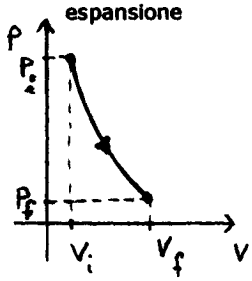
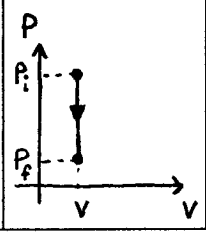
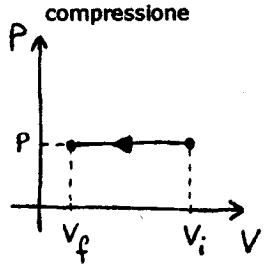
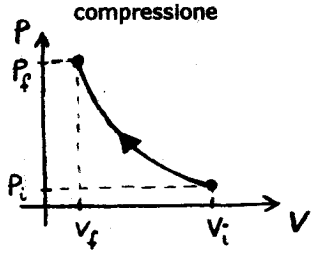
Calore, Lavoro e variazione di Energia Interna nelle principali trasformazioni

	Isocora	**Isobara**	**Isoterma**	**Adiabatica**
Legge	$\frac{P_A}{T_A}=\frac{P_B}{T_B}$ Gay - Lussac	$\frac{V_A}{T_A}=\frac{V_B}{T_B}$ Gay - Lussac	$P_A \cdot V_A = P_B \cdot V_B$ Boyle	$P_A \cdot V_A^{\gamma} = P_B \cdot V_B^{\gamma}$ $T_A \cdot V_A^{\gamma-1} = T_B \cdot V_B^{\gamma-1}$
	$\Delta V=0 \rightarrow L=0$		$\Delta T=0 \rightarrow \Delta U=0$	$Q=0$
ΔU	$\Delta U=Q$	$\Delta U=Q-L$	$\Delta U=0$	$\Delta U=-L$
Q	$Q=nC_v \Delta T$	$Q=nC_p \Delta T$	$Q=L$	$Q=0$
L	$L=0$	$L=P \cdot \Delta V$	$L = P_A V_A Ln\frac{V_B}{V_A}$ $L = P_A V_A Ln\frac{P_A}{P_B}$	$L=nC_v (T_1-T_2)$
	$P_f>P_i \rightarrow Q+$ Volume bloccato 	$V_f>V_i \rightarrow Q+, L+$ espansione 	$V_f>V_i \rightarrow Q+, L+$ espansione 	$V_f>V_i \rightarrow L+$ espansione 
	$P_f<P_i \rightarrow Q-$ Volume bloccato 	$V_f<V_i \rightarrow Q-, L-$ compressione 	$V_f<V_i \rightarrow Q-, L-$ compressione 	$V_f<V_i \rightarrow L-$ compressione