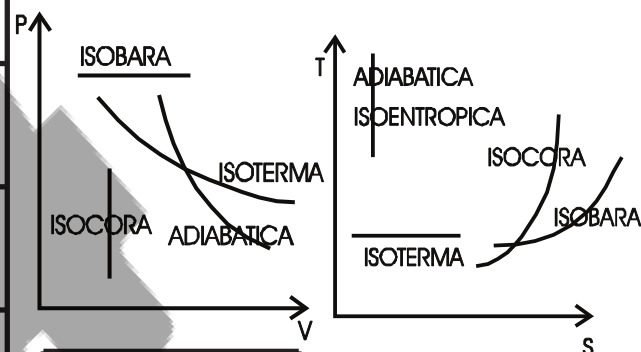


	$PV=nRT$	$W_{1 \rightarrow 2} = \int P dV$
ISOBARA $P=cte$	$\frac{V_1}{T_1} = \frac{V_2}{T_2}$	$W_{1 \rightarrow 2} = P_1(V_2 - V_1)$
ISOCORA $V=cte$	$\frac{P_1}{T_1} = \frac{P_2}{T_2}$	$W_{1 \rightarrow 2} = 0$
ISOTERMA $T=cte$	$P_1 V_1 = P_2 V_2$	$W_{1 \rightarrow 2} = nRT_1 \ln \frac{V_2}{V_1}$
ADIABATICA $\Delta Q = 0$	$P_1 V_1^\gamma = P_2 V_2^\gamma$ $T_1 V_1^{\gamma-1} = T_2 V_2^{\gamma-1}$ $T_1 P_1^{1-\gamma} = T_2 P_2^{1-\gamma}$	$W_{1 \rightarrow 2} = \frac{P_1 V_1 - P_2 V_2}{\gamma - 1}$ $= -nC_V(T_2 - T_1)$



$$R = 8,31 \frac{\text{Julios}}{\text{mol K}}$$

$$R = 0,082 \frac{\text{atm l}}{\text{mol K}}$$

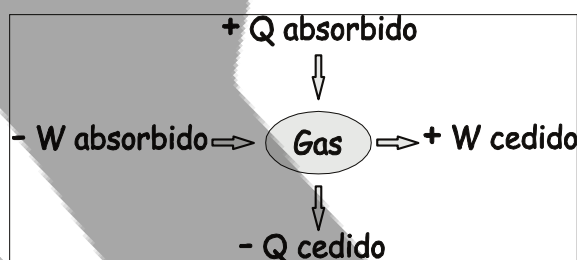
$$R = 2 \frac{\text{cal}}{\text{mol K}}$$

$$R = C_p - C_v$$

$$\gamma = \frac{C_p}{C_v}$$

ENERGIA INTERNA $U_{1 \rightarrow 2} = nC_V(T_2 - T_1)$	CALOR $Q_{1 \rightarrow 2} = U_{1 \rightarrow 2} + W_{1 \rightarrow 2}$	ENTALPIA $H_{1 \rightarrow 2} = nC_p(T_2 - T_1)$	ENTROPIA $S_{1 \rightarrow 2} = nC_V \ln \frac{T_2}{T_1} + nR \ln \frac{V_2}{V_1}$
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GASES MONOATOMICOS	GASES DIATOMICOS
$C_V = \frac{3}{2}R$	$C_V = \frac{5}{2}R$
$C_p = \frac{5}{2}R$	$C_p = \frac{7}{2}R$



	PRESION	VOLUMEN	TEMPERATURA	W,U,Q,H	R, C_p, C_v	S
SISTEMA INTERNACIONAL	$\frac{N}{m^2} = \text{Pa}$	m^3	K	J	$\frac{\text{Julios}}{\text{mol K}}$	$\frac{J}{K}$
SISTEMA QUIMICO	atm	l	K	atm·l	$\frac{\text{atm l}}{\text{mol K}}$	$\frac{\text{atm} \cdot \text{l}}{K}$
SISTEMA CALORIFICO			K	cal	$\frac{\text{cal}}{\text{mol K}}$	$\frac{\text{cal}}{K}$
	1atm = $1,013 \cdot 10^5 \text{ Pa}$	$1m^3 = 10^3 \text{ l}$	$T(K) = T(C) + 273$	1J = 0,24cal		