









Eo S

Calonic Eo S

$$p = e(p,v)$$
 $p = v(e,p)$

Thermal Eas

 $T = T(p,v)$
 $p = p(T,v)$
 $p = p(T,v)$
 $p = v(T,p)$

Caloric Eo S

 $p = e(p,v)$
 $p = v(e,p)$

Thermal Eas

 $p = e(p,v)$
 $p = v(e,p)$
 $p = v(e,p)$

$$A^{c} = P \wedge P \wedge P$$

$$A^{p} = P \wedge P \wedge P$$

$$\begin{pmatrix} l_{1}^{c} & l_{2}^{c} & l_{3}^{c} & l_{3}^{c} \end{pmatrix} \begin{pmatrix} f & f & f \\ f & f & f \\ f & f & f \end{pmatrix}$$

$$\begin{pmatrix} l_{1}^{c} & l_{2}^{c} & l_{3}^{c} & l_{3}^{c} \end{pmatrix} \begin{pmatrix} f & f & f \\ f & f & f \\ f & f & f \end{pmatrix}$$

Hint:
$$p = (ge)(Y-1)$$

$$= (Y-1) (gE - \frac{(gu)^2}{2g})$$

$$= (Y-1) (u_3 - \frac{u_2}{2u_1}) ...$$

$$V_{+} + (F(v))_{x} = 0$$

$$V_{+} + (F(v))_{x} = 0$$

$$A^{+} = Q^{+} A^{c} Q$$

Wt + / Wx = 0

