

1. $dU = T dS - P dV$

2. Other potentials:

- $H = U + PV$

- $F = U - TS$

- $G = H - TS$

3. Other identities:

- $dH = T dS + V dP$

- $dF = -S dT - P dV$

- $dG = -S dT + V dP$