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Using the methods developed in class: Step 1: Multiply both sides by the partition function  
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$H = (E + pV) e^{E_j p V_j}$ . Step 2: Get the temperature derivative at constant  $(N, P)$  (The conjugate variable to  $H$  in this case)  
 $\frac{\partial H}{\partial T} = \frac{1}{kT^2} \frac{\partial H}{\partial (E_j + pV_j)} = \frac{1}{kT^2} \frac{\partial}{\partial (E_j + pV_j)} (E_j + pV_j) e^{E_j p V_j}$ .

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