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K&K 2.1 Part a Suppose $g(U) = CU^{3N-2}$, where C is a constant and N is the number of particles. Show that $U = \frac{3}{2} N \epsilon$. We use the definition of temperature as $\frac{1}{T} = \left(\frac{\partial \ln \Omega}{\partial U} \right)_N$. (1) So, let's calculate

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$$\ln(g) = 3N \ln(U) + \ln(C) \quad (2)$$

Therefore, $\frac{\partial \ln(g)}{\partial U} = \frac{3N}{U} = \frac{1}{T}$ (3) So
nally, $U = \frac{3}{2} N k T$ (4) Part b Show that
 $\frac{\partial \ln(g)}{\partial N} = \frac{1}{T} \ln\left(\frac{2\pi m U}{h^2}\right)$.

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