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

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+  $\ln(C)$  (2) Therefore,  $\frac{U}{N} = 3k_B T$   
 $U = 3Nk_B T$  (3) So nally,  $U = 3Nk_B T$  (4) Part b  
Show that  $\frac{U}{N} = 3k_B T$

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