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constant and  $N$  is the number of particles.  
Show that  $U = \frac{3}{2} \frac{N\epsilon_0}{N}$ . We use the definition

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of temperature as  $\frac{\partial \Omega}{\partial U} = \frac{1}{T}$  (1) So,  
let's calculate  $\Omega$ .  $\Omega = \ln(g) = 3N \ln(U) + \ln(C)$  (2) Therefore,  $\frac{\partial \Omega}{\partial U} = \frac{3N}{U} = \frac{1}{T}$  (3) So finally,  $U = \frac{3}{2} N T$  (4) Part b  
Show that  $\frac{\partial^2 \Omega}{\partial U^2} = -\frac{1}{U^2}$ .

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a Suppose  $g(U) = CU^{3N/2}$ , where  $C$  is a constant and  $N$  is the number of particles. Show that  $U = 3/2 N k_B T$ . We use the definition of temperature as  $1/T = \partial \ln g / \partial U$  (1) So, let's calculate  $\ln g = \ln(CU^{3N/2}) = \ln(C) + \ln(U^{3N/2}) = \ln(C) + 3N/2 \ln(U)$  (2) Therefore,  $1/T = \partial \ln g / \partial U = 3N/2 \cdot 1/U$  (3) So finally,  $U = 3/2 N k_B T$  (4) Part b Show that  $\partial^2 \ln g / \partial U^2$  is negative.

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