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Part a Suppose  $g(U) =$

$C U^{3N-2}$ , 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  $\frac{1}{T} = \left( \frac{\partial \ln g}{\partial U} \right)_N =$

$\frac{1}{T} = \frac{1}{C} \frac{d \ln g}{d U} = \frac{3N-2}{U}$  (1) So, let's calculate

$\ln g = \ln(C U^{3N-2}) = \ln(C) + (3N-2) \ln(U)$

(2) Therefore,  $\frac{1}{T} = \frac{3N-2}{U} \frac{d U}{d \ln g} =$

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3N 2U = 1 " (3) So nally, U=  
3 2 N" 2 (4) Part b Show  
that @2'=@U2j

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Kittel, Herbert Kroemer This  
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The energy is  $\epsilon = 2 \frac{\hbar^2 k^2}{2m}$  (a) At  $k = \pi/a$   
the determinantal  
equation is  $(P/Ka) \sin Ka +$

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Physics = -1. In the same limit this equation has solutions  $Ka = \pi + \delta$ , where  $1\delta$ . We expand to obtain  $(\ ) ( \ ) 21 P 1 2 ( \ ) \pi -\delta + - + \delta = -| | \ ( \ ) 1$ , which has the solution  $\delta = 0$  and  $\delta = 2P/\pi$ .

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