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Poisson Brackets: (a) Show that for observable  $O(p(\mu), q(\mu))$ ,  $dO/dt = \{O, H\}$ , along the time trajectory of any micro state  $\mu$ , where  $H$  is the Hamiltonian (b) If the ensemble average ( $\{O, H \dots$

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# 1 Solutions Fall 2000 Surface Tension 1.  
Capillary forces: (a) i: The work done by a  
water droplet on the outside world, needed  
to increase the radius from  $R$  to  $R + \Delta R$  is  $W$   
 $= (P - P_0) 4\pi R^2 \Delta R$ ; where  $P$  is the pressure

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**Solutions** inside the drop and Po is the atmospheric pressure. In equilibrium, this should be equal to the increase in the surface energy  $\Delta W = S \Delta A = S 8\pi R^2$ , where  $S$  is the surface tension, and  $W_{\text{total}} = 0$ ;  $\Rightarrow W_{\text{pressure}} = W_{\text{surface}}$ ; resulting in  $(P - P_0) 4\pi R^2 \dots$

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**PROBLEM SET 6: Statistical Mechanics of Simple Systems** This Problem Set can be attempted during Weeks 4 and 5 of Hilary Term, with the tutorial or class on this material held at the end of Week 5 or later. Calculation of thermodynamic quantities from the partition function 6.1

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# 5 Solutions Fall 2003 Two-dimensional  
electron gas 1. Electron gas in a magnetic  
field: (a) The Hamiltonian for  
non-interacting free electrons in a  
magnetic field has the form  $H = \sum_i \frac{1}{2m} \left( \vec{p}_i - e \vec{A}(\vec{r}_i) \right)^2 + e \vec{m} \cdot \vec{B}$ ; or in  
expanded form  $H = \sum_i \frac{p_i^2}{2m} + e \vec{m} \cdot \vec{B} - e \vec{p}_i \cdot \vec{A}(\vec{r}_i) + \dots$

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$e^{2\beta m} A_{\sim 2} B_j B_{\sim j}$ : Substituting  $A_{\sim} = B_{\sim}$   
 $\sim q=2$ , results in  $H = p^2 2m + e 2m$

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Many of the problem sets have an associated suggested reading. Huang, Kerson. Statistical Mechanics. 2nd ed. New York, NY: Wiley, 1987. ISBN: 9780471815181.



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Brackets: (a) Show that for observable  
 $O(p(\mu), q(\mu))$ ,  $dO/dt = \{O, H\}$ , along the  
time trajectory of any micro state  $\mu$ , where

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$H$  is the Hamiltonian. (b) If the ensemble average  $\langle \{O, H\} \rangle = 0$  for any observable  $O(p, q)$  in phase space, show that the ensemble density satisfies  $\{H, \rho\} = 0$ .

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needed to increase the radius from  $R$  to  $R + \Delta R$  is  $W = (P - P_o) 4\pi R^2 \Delta R$ ; where  $P$  is the pressure inside the drop and  $P_o$  is the atmospheric pressure. In equilibrium, this should be equal to the increase in the surface energy  $S$

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statistical mechanics of black holes. It is based on the paper by G. Gour, Phys Rev. D 61, 021501(R) I have also included this exercise as a new optional vacation work question (R.7) in the updated Revision Problem Set, along with an opportunity to be creative about elastic chains (R.6). Note

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