

1. A certain gas obeys the equation of state $U(S, V, N) = aS^{\gamma}/V^{\delta}N^2$, where a is a dimensioned constant. Here U represents the internal energy of the gas, S the entropy, V the volume and N the fixed number of particles of the system.

- (a) Let such a gas be filled in a box of volume V and the internal energy of the system be U . A partition is placed to divide the box into two equal parts, each having volume $V/2$. For each part, the internal energy is now αU and the dimensioned constant be βa . Obtain α and β . [3]

$\alpha =$	$\beta =$
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- (b) The temperature T can be expressed in terms of the derivative of internal energy as [2]

$$T = \left(\frac{dU}{dS} \right)_{V, N}$$

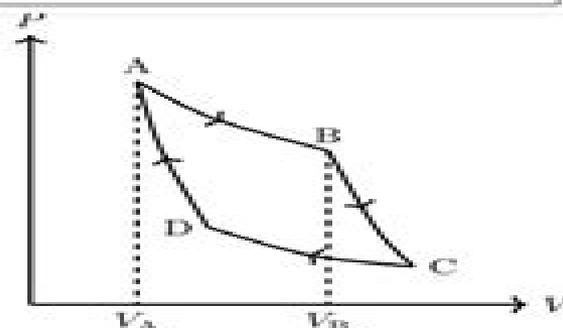
where the subscripts indicate that the differentiation has been carried out keeping V and N constant. In a similar way, express pressure P in terms of a derivative of the internal energy.

$P =$

- (c) Find the equation of state of the given system relating P , T , and V . [1]

$P =$

- (d) One mole of this gas executes a Carnot cycle ABCDA between reservoirs at temperatures T_1 and T_2 ($T_1 > T_2$). Obtain the heat change in the process AB (Q_{AB}) and work done by the system in the processes AB and BC (W_{AB} , W_{BC}) of the cycle. Express your answers only in terms of temperatures T_1 , T_2 , volumes V_A , V_B , and the other constants. [7]



$Q_{AB} =$

Physics Olympiad Questions And Solutions

**Swee Cheng Lim, Choy Heng Lai, Leong-
chuan Kwek**

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contains as a main part the best theoretical and experimental problems with complete solutions given at the national competition or at the training of the team before the international competition Taking into account that at present the International Physics Olympiad involves about 35 countries we are sure that the book will be interesting for everybody involved with physics education not only with the physics olympiads *American Journal of Physics* ,1992 Mathematical Education ,1990

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