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on Thu, 14 Aug 2008 15:45:27 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 16:04:35 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 16:31:39 GMT  
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on Thu, 14 Aug 2008 16:56:08 GMT

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Posted by [Riona](#) on Thu, 14 Aug 2008 17:24:58 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 17:28:48 GMT  
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on Thu, 14 Aug 2008 17:51:26 GMT

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on Thu, 14 Aug 2008 17:56:17 GMT

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Posted by  
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on Thu, 14 Aug 2008 18:03:16 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 18:05:46 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 18:08:37 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 18:15:55 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 18:25:25 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 18:32:22 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 18:38:52 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 18:52:21 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 18:57:24 GMT  
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Posted by [zirow](#) on Thu, 14 Aug 2008 19:02:09 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 19:07:43 GMT  
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Posted by  
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on Thu, 14 Aug 2008 19:09:01 GMT

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Posted by [IrinaS](#) on Thu, 14 Aug 2008 19:27:03 GMT  
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on Thu, 14 Aug 2008 19:35:20 GMT

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on Thu, 14 Aug 2008 19:49:21 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 19:51:43 GMT  
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Posted by [NEZP](#) on Thu, 14 Aug 2008 19:52:18 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 20:15:49 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 20:18:35 GMT  
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Posted by  
20:18:53 GMT

on Thu, 14 Aug 2008

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Posted by

on Thu, 14 Aug 2008 20:19:02 GMT

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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 20:45:52 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 20:47:30 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 20:53:25 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 20:56:32 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 21:05:47 GMT  
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Posted by \_\_\_\_\_ on Thu, 14 Aug 2008 21:14:01 GMT  
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B.

$$EB - EA = Q - L, (7)$$

$L = Q, (10)$

$$dE = \left( \frac{\partial E}{\partial T} \right)_V dT + \left( \frac{\partial E}{\partial V} \right)_T dV .$$

$$\delta Q = \left( \frac{\partial E}{\partial T} \right)_V dT + \left[ \left( \frac{\partial E}{\partial V} \right)_T + P \right] dV \quad (13)$$

$$dV = \left( \frac{\partial V}{\partial T} \right)_P dT + \left( \frac{\partial V}{\partial P} \right)_T dP$$



$$\delta Q = \left[ \left( \frac{\partial E}{\partial T} \right)_P + P \left( \frac{\partial V}{\partial T} \right)_P \right] dT + \left[ \left( \frac{\partial E}{\partial P} \right)_T + P \left( \frac{\partial V}{\partial P} \right)_T \right] dP \quad (14)$$

$$c_V = \frac{\left( \delta Q \right)_V}{dT} = \left( \frac{\partial E}{\partial T} \right)_V \quad (15)$$

$$c_P = \frac{\left( \delta Q \right)_P}{dT} = \left( \frac{\partial E}{\partial T} \right)_P + P \left( \frac{\partial V}{\partial T} \right)_P \quad (16)$$

$$C_V = \left( \frac{\partial \tilde{E}}{\partial T} \right)_V, C_P = \left( \frac{\partial \tilde{E}}{\partial T} \right)_P + P \left( \frac{\partial \tilde{V}}{\partial T} \right)_P, \quad (17)$$

$$C_V = \left( \frac{\partial \tilde{E}}{\partial T} \right)_V = \frac{d\tilde{E}}{dT} \quad (18)$$

$$\tilde{E} = C_V T + E_0, \quad (19)$$

$$E = N(C_V T + E_0) \quad (20)$$

$$\Delta \tilde{Q} = C_V dT + P d\tilde{V} \quad (21)$$

$$P\tilde{V}=RT, \quad (22)$$

$$P d\tilde{V}+\tilde{V} dP=R dT.$$

$$\delta \tilde{Q}=C_V dT+R dT-\tilde{V} dP.$$

$$C_P=\frac{\left(\delta \tilde{Q}\right)_P}{dT}=C_V+R, \quad (23)$$





$$\Delta Q_1 = L = \int_{V_A}^{V_B} P \, dV = \int_{V_A}^{V_B} NRT_1 \frac{dV}{V}, \quad (27)$$

$$\Delta Q_1 = NRT_1 \ln \frac{V_B}{V_A}. \quad (28)$$

$$\Delta Q_2 = \int_{V_C}^{V_D} P \, dV = NRT_2 \ln \frac{V_D}{V_C}. \quad (29)$$

$$\eta = \frac{L}{\Delta Q_1} = \frac{\Delta Q_1 + \Delta Q_2}{\Delta Q_1} = 1 + \frac{\Delta Q_2}{\Delta Q_1} \quad (32)$$

$$\eta = 1 - \frac{T_2}{T_1} \quad (33)$$

$$\sum_{i=1}^n \frac{\Delta Q_i}{T_i} = 0, \quad (34)$$

$$\oint \frac{\delta Q}{T} = 0. \quad (35)$$

$$\oint \frac{\delta Q}{T}$$

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Posted by [Riona](#) on Thu, 14 Aug 2008 21:26:17 GMT  
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Posted by [Riona](#) on Thu, 14 Aug 2008 21:39:27 GMT  
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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 02:29:05 GMT  
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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 04:17:07 GMT  
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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 04:23:55 GMT  
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Posted by [Riona](#) on Fri, 15 Aug 2008 04:25:15 GMT  
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Posted by  
04:25:28 GMT

on Fri, 15 Aug 2008

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Posted by [Riona](#) on Fri, 15 Aug 2008 04:30:42 GMT

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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 04:45:32 GMT  
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Posted by  
04:49:11 GMT

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Posted by                      on Fri, 15 Aug 2008 04:50:48 GMT

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Posted by [Riona](#) on Fri, 15 Aug 2008 04:53:52 GMT

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B.»









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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008  
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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 05:21:17 GMT  
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11:19

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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 05:24:51 GMT  
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on Fri, 15 Aug 2008

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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 05:50:40 GMT  
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Posted by \_\_\_\_\_ on Fri, 15 Aug 2008 05:54:13 GMT  
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Posted by [Riona](#) on Fri, 15 Aug 2008 06:53:10 GMT  
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