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becomes:  $U + A = 0$ ; (1) where  $A$  is the work  
done by gas, and  $U$  is its internal energy.  
Using  $A = P \Delta V$  and  $U = C_V T$  we obtain:  $C_V(T_2 - T_1) + P \Delta V = 0$ ; (2)  
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