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Physics and Statistical Mechanics Alexandre
V. Morozov 1 Solutions for Problem 1 a)

$Q = 0$ for adiabatic processes, and thus the first law of thermodynamics 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: $C_V(T_2 - T_1) + P \Delta V$

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thermal conductance, thermal interface
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