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An Introduction to Statistical Mechanics and Thermodynamics
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Qualifying Exam Solutions: Thermal Physics and Statistical Mechanics Alexandre V. Morozov 1 Solutions for Problem 1 a) Q= 0 for adiabatic processes, and thus the rst law of thermodynamics becomes: U+ A= 0; (1) where Ais the work done by gas, and U is its internal energy. Using A= P 2 V and U= C V T we obtain: C V(T 2 T

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