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high temperature limit, the top exponential because its ratio in the exponent goes to zero. The bottom one may be expanded out as a power series as for small β so only the linear terms are kept. And so in the high temperature limit, as $\beta \rightarrow 0$. Similarly, if then as in Problem (1-55) we have

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Using the methods developed in class:
Step 1: Multiply both sides by the partition function $H = \sum_j e^{-E_j/pV}$. Step 2: Get the temperature derivative at constant (N, P) (The conjugate variable to H in this case) $\partial H / \partial T = -H / T$.
 $(E_j + pV) e^{-E_j/pV} = -kT^2 \partial / \partial T \sum_j e^{-E_j/pV}$.

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and, although it was first published in 1976, is still widely used in courses and consulted by researchers. A strong part of the appeal of the book are the numerous problems that accompany each chapter. Page 8/26

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If we now describe an arbitrary fluctuation in terms of its Fourier components, the general solution of this equation for each of these components is an oscillatory function of the form $\delta p = A(q, t) \cos(q-r)$, with the amplitude given by A

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 $\exp[-Mq^2(a^2f/a$
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