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Statistical Physics ...

? 1 $\gamma = 5/3$, $CV = 3/2$ (see HW solution to 2.b from Chap.3), $P = P(T)$
 $(1/\gamma) \gamma^2 a^3$, $mc^2 s = 5/3 T$
 $(1/\gamma) \gamma^2 a^3$. For $\gamma = 5/3$, $mc^2 s = 15/4 T a^3$. Given that $T_c = (8/27) a^3 mc^2 s = 15/4 T_c$, so the sound modes are unstable for $T < 3$

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Tc/5. 4.6 (a) $f(p,r,t) = f(p,r+vt,t) = f_0 \exp?$

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With $N_1 = \frac{1}{2}N$ and $N_2 = (1 - \frac{1}{2})N$,
where $N = N_1 + N_2$ (which is fixed),

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the expression for $(S)/k$ takes the form $N \ln \left(\frac{1}{N} \right) + N \ln \left(\frac{1}{N} \right)$. The first and second derivatives of this expression with respect to α are $N[\ln \left(\frac{1}{N} \right) + N \ln \left(\frac{1}{N} \right)]$ and $(2\alpha, \beta) = 1, 1$ respectively.

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writer and has written Statistical
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exercises from chapters 1 to 10 of
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Silvio R. A. Salinas, first published by Springer, New York, in 2001. We also add a number of corrections and some new exercises. Additional corrections and suggestions are warmly welcomed. Silvio Salinas

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Moving from basic to more advanced

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