

# Statistical Physics 2, 7.5 hp Home examination

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## II. VIRIAL EXPANSION FOR A CLASSICAL GAS

### Problem 2 out of 3

Calculate the three first virial coefficients of a classical gas. That is, complete all the steps between Eqs. (5.14) and (5.17) in the book.

**Deadline Monday 9/5.** *Submissions by pdf file to [lundh@tp.umu.se](mailto:lundh@tp.umu.se) or neat handwriting.*