

# FYS4130: Obligatory Exercise 1

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## Assignment 1

What if I start writing here? And if I continue...

## Assignment 2

## Assignment 3

a)

b)

1. Determine the phases of the system, and give quantitative details such as the concentration of rods with different orientations.
2. Are there phase transitions? If so, find the critical concentrations (or pressures). Which quantities, if any, are undergoing discontinuous changes?
3. Are there coexistence of phases? If so, which phases are coexisting?
4. As a summary, explain briefly in words what is happening to the system as the conditions are changed.

c)

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## Assignment 4