

# Statistical Mechanics

## Problem Review

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1

What will be the correlation when  $T > T_c$ ? Give a value of correlation length typically when temperature is extremely high?

2

Draw the diagram of magnetic field VS. magnetization at  $T < T_c$ ,  $T = T_c$  and  $T > T_c$  (use the P-V diagram as a reference if it will be helpful). What makes magnetization transition at  $T < T_c$ ?

