1. How could we guess, using a computer simulation, that a certain process exhibits chaotic behavior?

2. What are the two crucial assumptions of the BBGKY (Bogolyubov-Born-Green-Kirkwood-Yvon) approach? One of them is related to the assumption of Molecular Chaos; how?

3. What is the relationship among the following systems: ergodic, C, weakly mixing, mixing, n-mixing, K, Bernoulli? Do realistic examples of such systems exist?