35.1. We didn't have a list to write down here—so answers may vary, and that's OK.
   1) Linear combinations of solutions may not be solutions.
   2) Harmonics of the fundamental frequency are often also solutions.
   3) Amplitudes are often frequency dependent.

35.2. In the method of successive approximations, we usually guess a solution based on solutions to a similar linear equation. We put that in the original differential equation to give us an algebraic equation we can solve that can give us a better solution. This often leads to solutions that include harmonics.

36.1. Not all nonlinear equations have chaotic behavior. They must be sensitive to initial conditions and be non-repetitive.

36.2. A state-space plot is a plot of velocity vs position (or something proportional to that). They are useful to see if the motion is repetitive.