Homework 6

2.1 Suggest the most appropriate generic software process model that might be used as a basis for managing the development of the following systems. Explain your answer according to the type of system being developed:

* A system to control antilock braking in a car - the waterfall process is usually adapted for safety-critical systems because of the higher amount of analysis and documentation required before implementation. Because testing is a huge part of finalizing the software, it seems the waterfall model is the most appropriate generic software process.
* A virtual reality system to support software maintenance - software maintenance is best done through versions and updates over long amounts of time, which would be the incremental development process.
* A university account system that replaces an existing system - the integration and configuration process seems like it would be the best choice for a new account system as it takes reusable components (like formulas and sums) and integrates them into a new system and setting.
* An interactive travel planning system that helps users plan journeys with the lowest environmental impact - I think this could be more than one of the software process models, but I will say incremental development. A planning system would need to be adaptable and have multiple versions.