**Homework 19: Systems Engineering**

**Problem 1**

*Give two examples of government functions that are supported by complex sociotechnical systems and explain why, in the foreseeable future, these functions cannot be completely automated.*

**Problem 2**

*Explain briefly why the involvement of a range of professional disciplines is essential in systems engineering.*

**Problem 3**

*Complex sociotechnical systems lead to three important characteristics. What are they? Explain each in brief.*

**Problem 4**

*Why is system integration a particularly critical part of the systems development process? Suggest three sociotechnical issues that may cause difficulties in the system integration process.*

**Problem 5**

*Why is system evolution inherently costly?*