Problem Set 1

Due in class on Tuesday, September 27, 2005.

Work each of the following problems from the textbook, *Introduction to Cryptography with Coding Theory: Second Edition* by Trappe and Washington.. For each problem, show your work and justify your answer, whether or not the question specifically requests this.

Problem 1: Affine Cipher

Textbook, problem 2.13.2.

Problem 2: Vigenère Cipher

Textbook, problem 2.13.11.

Problem 3: Hill Cipher

Textbook, problem 2.13.13.

Problem 4: LFSR Machine

Textbook, problem 2.13.20.

Problem 5: Big Numbers

Textbook, problem 2.13.23.

Problem 6: Entropy

Textbook, problem 15.6.9.