Section X.2 Homework

ORAL:

1. Suppose Bob and Alice agree publicly to use 7 mod 101. Alice's secret key is 32 and Bob's secret key is 45. Determine their shared secret under the Diffie-Helman protocol.

WRITTEN:

2. The public code book lists for Bob the pair $(4559, 127)$ and for Alice the pair $(3827, 425)$. Crack Alice's code and then send Bob a message saying "HATE" with the signature "ALICE". (Note: split the words into 2-letter chunks. For ALICE use AL-IC-E␣ where for ␣ you use 00.)