MATHEMATICS 4440/5440 CRYPTOSYSTEM ORGANIZER

Cryptosystem: Caesar Cipher
Plaintext space: (2/262) = strings of integers mod 26
Circle and and an analysis of the control of the co
Key space (and its size): $\mathbb{Z}_{26}\mathbb{Z} = \{0, 1, \dots, 25\}$
If key = k, encryption is character-by-character
x mod 26 + > x + k mod 26
of key=k, decryption n mod 26 \rightarrow x - k mod 26
Example: See slides
Ciphertext only attacks:
Known plaintext attacks:
Chosen plaintext attacks:
Chosen ciphertext attacks: