Review for Test 3

Know the following definitions:
primitive roots
Carmicheal number
order of an element in a group
Eulers phi function
Know:
How to encrypt or decrypt with Vigenere cipher
How to do the extended Euclidean algorithm
How to exchange a key (Diffie Hellman) elliptic or regular
Know how to make the lists in Giant Step Baby Step
Prime number theorem and how to use it
Legendre/Jacobi symbol calculations - quadratic reciprocity
elliptic curve discrete log problem
RSA digital signature
Main Algorithms to Know
Elliptic Curve Addition P+Q or P+P
Polig Hellman (and Chinese Remainder)
Difference of Squares
Index Calculus
Miller Rabin
Not on Test
Pollard's algorithm
Micali Goldwasswer
DSA