Recurrence Relations
Given a kth order recurrence of the form $a_n = x_1 a_{n-1} + x_2 a_{n-2}$, what is:
i The characteristic polynomial:
ii The closed form solution:
Theorems
"I.C. Theorem":
Bezout's Theorem:
Corollary to Bezout's Theorem:
The Euclidean Algorithm:
"Important" Theorem:
Prime Importance:
Fundamental Theorem of Arithmetic:
i(a, b) =
ii $[a,b] =$
Modular Arithmetic
Congruence:
Cancellation Theorem:
Wilson's Theorem:
Fermat's Theorem:
Euler's Totient Function:
i What does it tell use?
ii How do we calculate it?

Euler's Theorem: