MATH3323 - Elementary Number Theory

MATH 3323 Elementary Number Theory (3 semester credit hours) Divisibility of integers, prime numbers, the Euclidean algorithm, greatest common divisors, Bezout coefficients, the fundamental theorem of arithmetic, linear congruences, the Chinese remainder theorem, Euler's totient function, polynomial congruences, Hensel's lemma, order, primitive roots, quadratic reciprocity, primality testing, factorization techniques, public key encryption algorithms, and additional topics. Prerequisite: A grade of at least a C- in either MATH 2414 or in MATH 2418 or MATH 2419. (3-0) Y

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