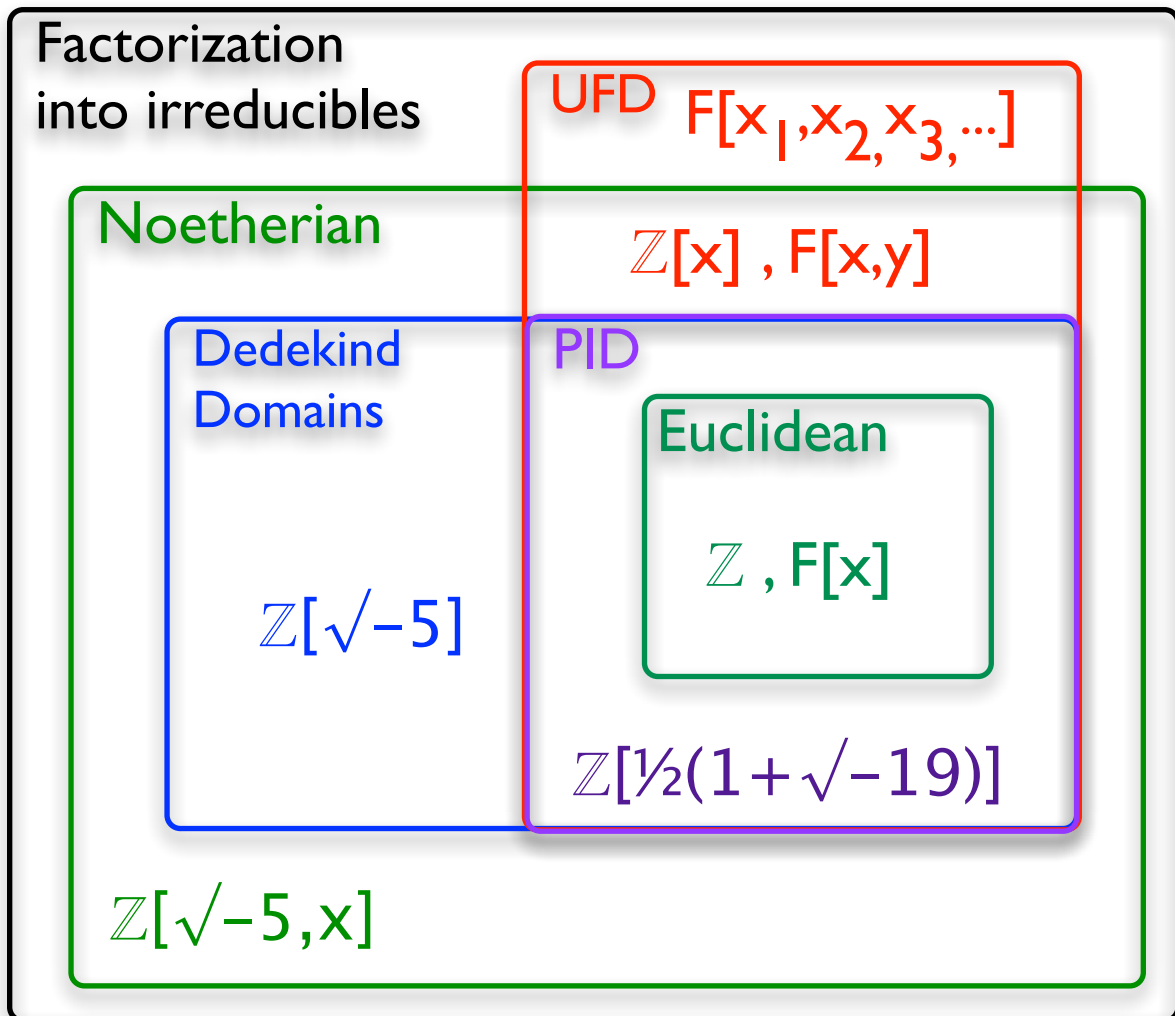


Classes of Integral Domains



F is a field

UFD: irreducibles are prime, gcd exists

PID: gcd can be expressed in the form $xa + yb$

Euclidean: gcd can be computed with the euclidean algorithm

Dedekind Domain: Every Ideal is a product of prime ideals (Rings of algebraic integers in a field extension are Dedekind domains)