Hello World

Definition 1. Integral domain is commutative Ring R, if $a, b \in R$ and $a, b \neq 0$ then $ab \neq 0$

Definition 2. An integral domain is called Euclidean if there exists function $f: R \setminus \{0\} \to \mathbb{N}$ satisfies the two properties: 1.f(a) < f(ab) for all nonzero $a, b \in R$

2. $\forall a, b \in R$ with $b \neq 0$, there exists q, r such that a = q * b + r where f(r) < f(q)