Schreier domain

Canonical name	SchreierDomain
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Entry type	Definition
Classification	msc 13G05
Synonym	pre-Schreier
Defines	pre-Schreier domain

An integral domain D is a *pre-Schreier domain* if every non-zero element of D is primal. If in addition D is integrally closed, then D is called a *Schreier domain*.

Remarks.

1. Every irreducible element of a pre-Schreier domain is prime.

2. A gcd domain is a Schreier domain (a proof of this can be found `http://planetmath.org/ProofThatAGcdDomainIsIntegrallyClosed`here).