



Math for the people, by the people.

global field

Canonical name	GlobalField
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Entry type	Definition
Classification	msc 14G25
Classification	msc 14G20
Defines	global number field
Defines	global function field

A *global field* is either a *global number field* or a *global function field*.

A *global number field* is a finite extension of the rationals.

A *global function field* is a finite extension of the field of rational functions  $k(t)$  of a finite field  $k$ .