

Quadratic Field

An algebraic integer of the form $a + b\sqrt{D}$ where D is squarefree forms a quadratic field and is denoted $\mathbb{Q}(\sqrt{D})$. If $D > 0$, the field is called a real quadratic field, and if $D < 0$, it is called an imaginary quadratic field. The integers in $\mathbb{Q}(\sqrt{1})$ are simply called "the" integers. The integers in $\mathbb{Q}(\sqrt{-1})$ are called Gaussian integers, and the integers in $\mathbb{Q}(\sqrt{-3})$ are called Eisenstein integers. The algebraic integers in an arbitrary quadratic field do not necessarily have unique factorizations. For example, the fields $\mathbb{Q}(\sqrt{-5})$ and $\mathbb{Q}(\sqrt{-6})$ are not uniquely factorable, since

$$21 = 3 \cdot 7 = (1 + 2\sqrt{-5})(1 - 2\sqrt{-5}) \quad (1)$$

$$6 = -\sqrt{-6}(\sqrt{-6}) = 2 \cdot 3, \quad (2)$$

although the above factors are all primes within these fields. All other quadratic fields $\mathbb{Q}(\sqrt{D})$ with $|D| \leq 7$ are uniquely factorable.

Quadratic fields obey the identities

Number Theory In The Quadratic Field Wit

Kathleen Armour



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