

Finite Rational Matrix Groups

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Group (mathematics) - Wikipedia

For eigenvalues outside the fraction field of the base ring of the matrix, you can choose to have all the eigenspaces output when the algebraic closure of the field is implemented, such as the algebraic numbers, $\overline{\mathbb{Q}}$. Or you may request just a single eigenspace for each irreducible factor of the characteristic polynomial, since the others may be formed through Galois conjugation.

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An abelian group is a set, G , together with an operation that combines any two elements and of to form another element of G , denoted ab . The symbol \cdot is a general placeholder for a concretely given operation. To qualify as an abelian group, the set and operation, (G, \cdot) , must satisfy five requirements known as the abelian group axioms: Closure For all a, b in G , the result of the operation is also in G .

Abelian group - Wikipedia

In mathematics, a group is a set equipped with an operation that combines any two elements to form a third element while being associative as well as having an identity element and inverse elements. These three conditions, called group axioms, hold for number systems and many other mathematical structures. For example, the integers together with the addition operation form a group.

