



Math for the people, by the people.

loop

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In graph theory, a *loop* is an edge which joins a vertex to itself, rather than to some other vertex. By definition, a graph cannot contain a loop; a pseudograph, however, may contain both multiple edges and multiple loops. Note that by some definitions, a multigraph may contain multiple edges and no loops, while other texts define a multigraph as a graph allowing multiple edges and multiple loops.

In algebra, a *loop* is a quasigroup which contains an identity element.