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matching

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Related topic	Matching
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Defines	maximal matching
Defines	perfect matching

Let G be a graph. A *matching* M on G is a subset of the edges of G such that each vertex in G is incident with no more than one edge in M .

It is easy to find a matching on a graph; for example, the empty set will always be a matching. Typically, the most interesting matchings are *maximal matchings*. A maximal matching on a graph G is simply a matching of the largest possible size.

A *perfect matching* is a matching that saturates every vertex.