



**Definition**

A *bipartite graph* is a triple  $(A, B, E)$  so that  $A \cap B = \emptyset$  and  $(A \cup B, E)$  is an undirected graph.<sup>1</sup>

**Proposition 1.** *A bipartite graph has no odd cycles.*

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<sup>1</sup>There is a directed variant.



