

## BIPARTITE GRAPHS

## **Definition**

A bipartite graph is a triple (A,B,E) so that  $A\cap B=\varnothing$  and  $(A\cup B,E)$  is an undirected graph.

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

<sup>&</sup>lt;sup>1</sup>There is a directed variant.

