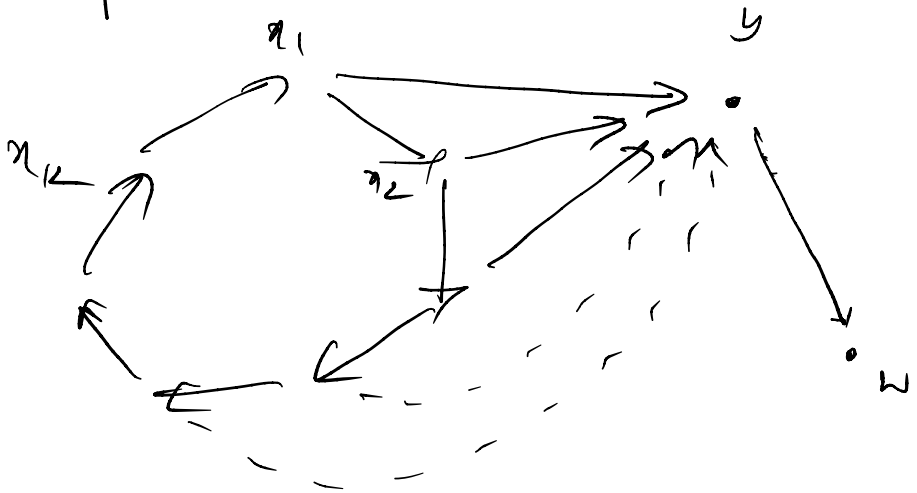


• Thm: A tournament has a k -cycle
 iff the tournament is strongly
 connected;

⇒ Trivial

⇐ Take the longest cycle in
 the graph;



$$Z = \{v \in V \setminus C \mid a_i \rightarrow v\}$$