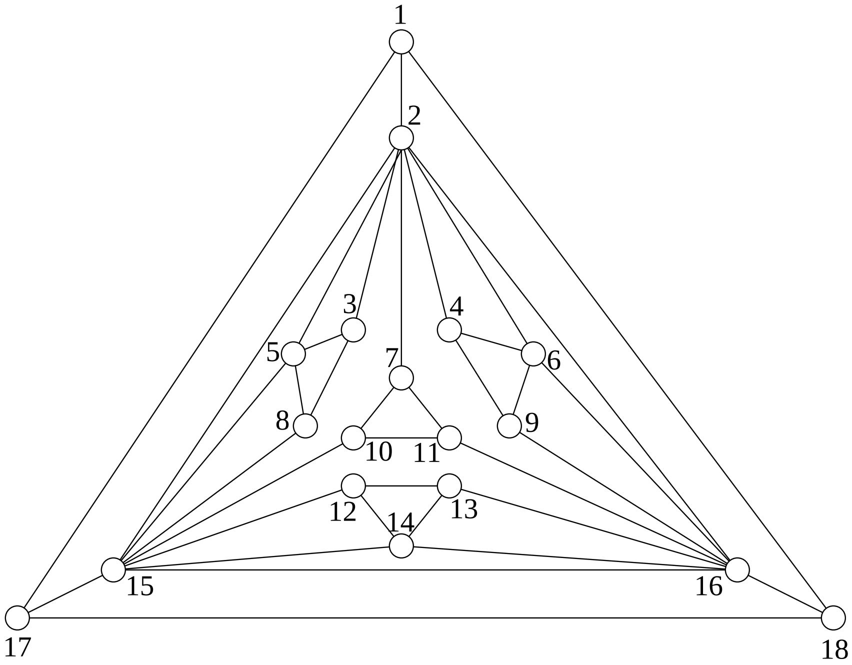
Massachusetts Institute of Technology
18.433: Combinatorial Optimization
Michel X. Goemans

Handout 1
September 8, 2005

Matching illustration

A matching M in a graph $G = (V, E)$ is a set of edges with no endpoints in common. In the graph below, find a matching of maximum size.



How can you convince someone that the matching you found is indeed of maximum cardinality?