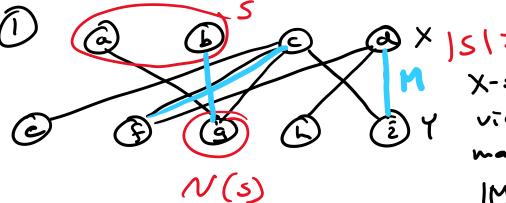
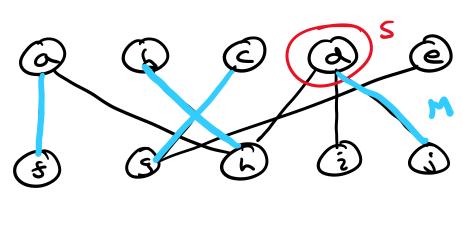
Weekly Problems 6 - Solutions

Friday, February 16, 2024 7:03 PM

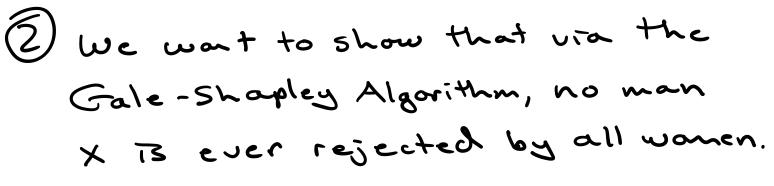


X-saturating match X-saturating match Via Hall. So nax match of [M] = 3 = [X[-1] is maximum



O(G-S)=3>|S|=1so no P.M. via Tutte. So match $IM[=4 \in \frac{|V(G)|}{2}$ is maximum

Note: can also use Hall



Note: women will only reject when they have multiple matches

Note 2: once a woman has at least I match, they will always have at least one match

-> In order for x to be rejected n times, this implies that there must be at least one match for all n wanen to (n-1) possible men, a x x x x

=> so no mon con be rejected n times, or by all women []