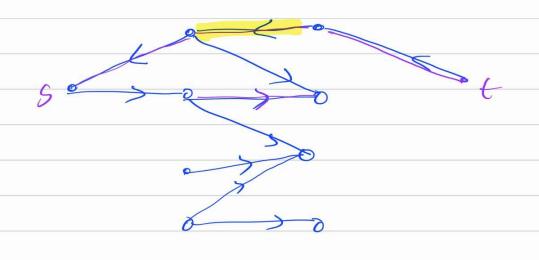
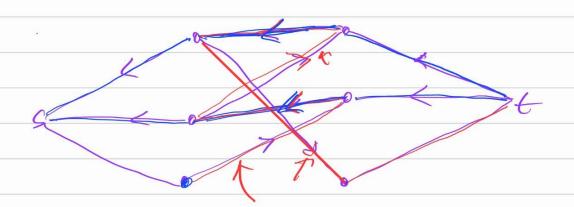


 $V(f) = \int_{0}^{0} \left( \frac{1}{3} s_{1}^{2} U X \right) - \int_{0}^{1} \left( \frac{1}{3} s_{1}^{2} U X \right)$ = fout ({ss}UX) - 0  $= f^{out}(\S S \cup X) = |M|$ One can find the max. matching O(mn) time. f(e) = 1 flej=1





Augmenting paths are also called alternating paths in context with unateling.

Defar. Perfect mateling is a matching volume energy vertex has exactly one edge incident on it.



wininum condition for a perfect
unatching in a bipartite graft

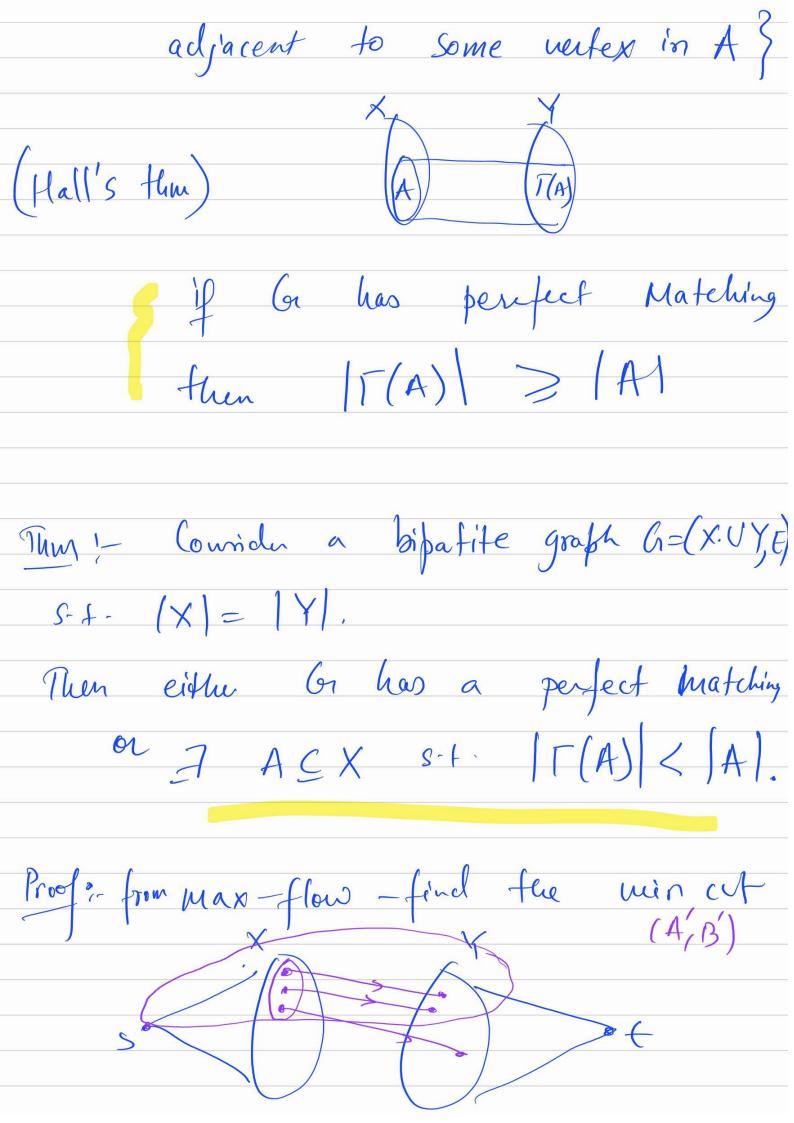
is |X| = |X|

Find the max flow (= max. matching)
and check max-flow = (X)=(X)

Ofhwise, max-pow < |X|=|X|

Define: T(A) when ACX

T(A) = { y ∈ Y (-4. y is



A'= {5} U some part of X U some part of Y A := A'AX Claim: |T(A) | < |A)