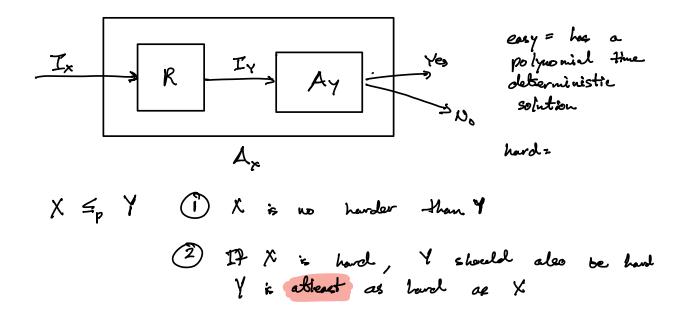
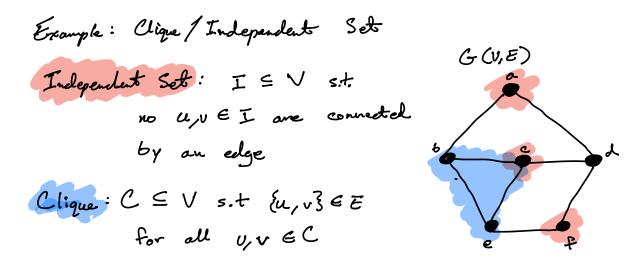
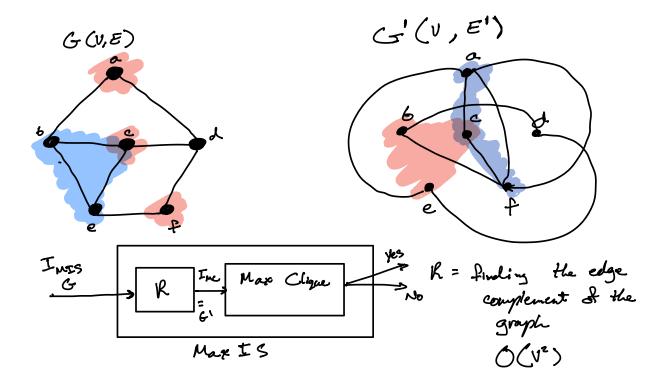


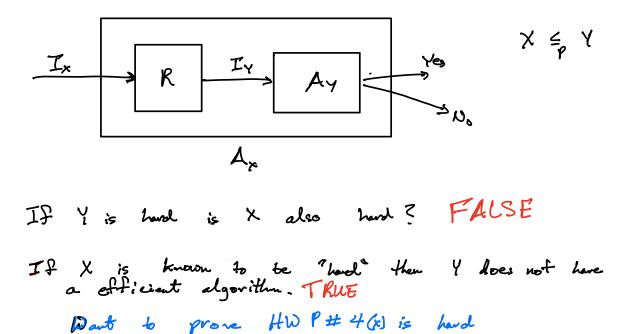
Ax = finding shortest path from 5 tot Diskotra's Ay = finding all shortest paths Bellman - Ford Dikstra's = Bellman/Ford







MaxIS < MaxClique MaxIS ~ Max Clique



Reduce a hard problem to X. (IS or Clique)

- If Y has a polynomial time algorithm then it implies X has a polynomial time algorithm. Depends If K is polynomial then true If K is more than take.
- X ≤ Y implies Y ≤ X? FALSE

If $X \leq_p Y$ and $Y \leq_p Z$ then $X \leq_p Z$? TRUE $\frac{\exists_p}{\exists_p} = R_{pY} \xrightarrow{\exists_{Y}} P_{RYZ} \xrightarrow{\exists_{Y}} A_{Y}$ A_{Y}

-if due has 2 literal $(aVb) \Longrightarrow (aVbVu) \land (aVbV\bar{u})$

-if clause has I literal (a) => (a V u V.) A (a V ū V.) A (a V u V.) A (a V ū V.)