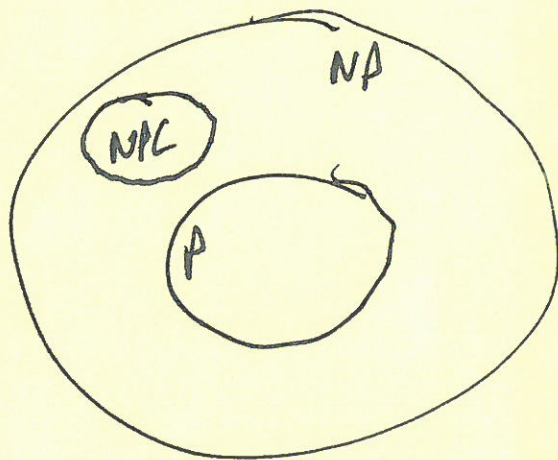


$w, \Omega, \emptyset, \emptyset, \emptyset$



1. $(\text{mon} \vee \text{wed} \vee \text{thurs}) \wedge$

2. $\overline{\text{wed}}$

3. $\overline{\text{thurs}}$

4. $\overline{\text{fri}}$

\wedge

\wedge

\wedge

Conjunctive

Normal

Form

$\text{mon} = \text{true}$

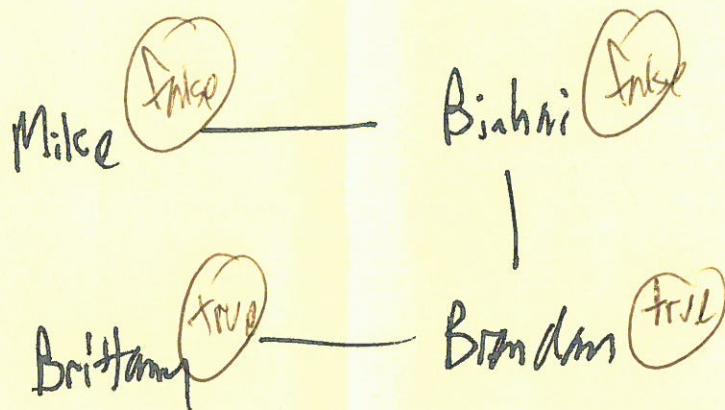
$\text{thurs} = \text{false}$

$\text{wed} = \text{false}$

$\text{thurs} = \text{false}$

$\text{fri} = \text{false}$

Forming



How can a clique be found via satisfiability?

- | | | |
|-----|--|---|
| (1) | $\overline{\text{Mike}} \vee \overline{\text{Brittany}}$ | T |
| (2) | $\overline{\text{Mike}} \vee \overline{\text{Brandon}}$ | T |
| (3) | $\overline{\text{Brittany}} \vee \overline{\text{Binhai}}$ | T |

#1 Problem X is no harder than an NPC problem

#2 Problem X is no easier than an NPC problem

Together, we can know that Problem X is an NPC problem