











- n CNF formula
 - n a logical AND of a bunch of clauses











- Argue that f is polynomial time
- Argue correctness: two directions Yes for
- A implies Yes for B and vice versa.
- Show **B** is in **NP**
 - ⁿ State what certificate is and why it works
 - ⁿ Argue that it is polynomial-time to check.

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Problems we already know are NPcomplete

- n Satisfiability
- n Independent-Set
- n Clique
- Nertex-Cover
- There are 1000's of practical problems that are NP-complete, e.g. scheduling, optimal VLSI layout etc.





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