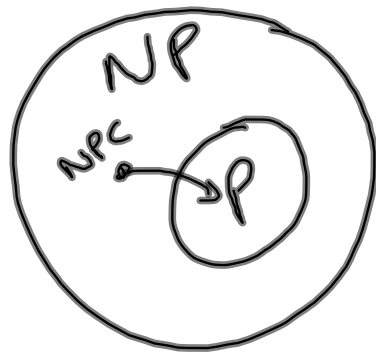


NP-Complete (NPC)

if an NPC problem is

in P then all NP problems
are in P . ($P = NP$)



$L \in NPC$

Show N is NPC

by showing
reduce L to N
(in poly. time)

Satisfiability
Boolean formula

eg. $x_1 \wedge x_2 \vee (x_1 \wedge \bar{x}_3)$

$SAT = \{ \langle \phi \rangle \mid \phi \text{ is a satisfiable Boolean formula} \}$

$SAT \in P$ iff $P = NP$

<http://cs.gettysburg.edu/~cpresser/cs301/examples/SubsetsEtAl/src/>

