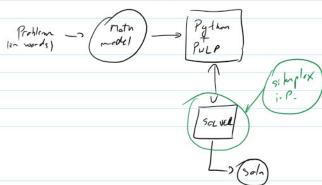


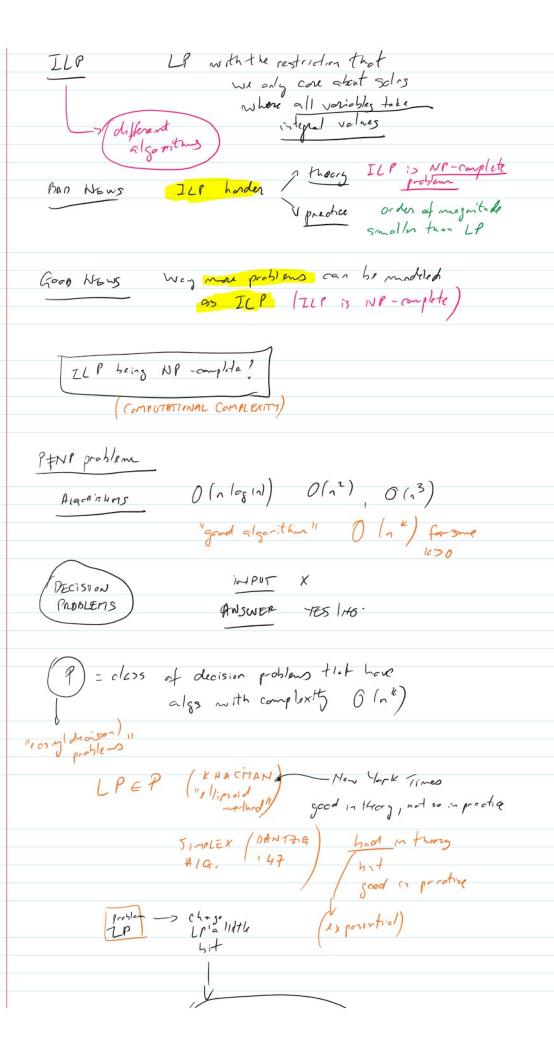
GOOD NEWS L? has efficient ? in twoy of gritary

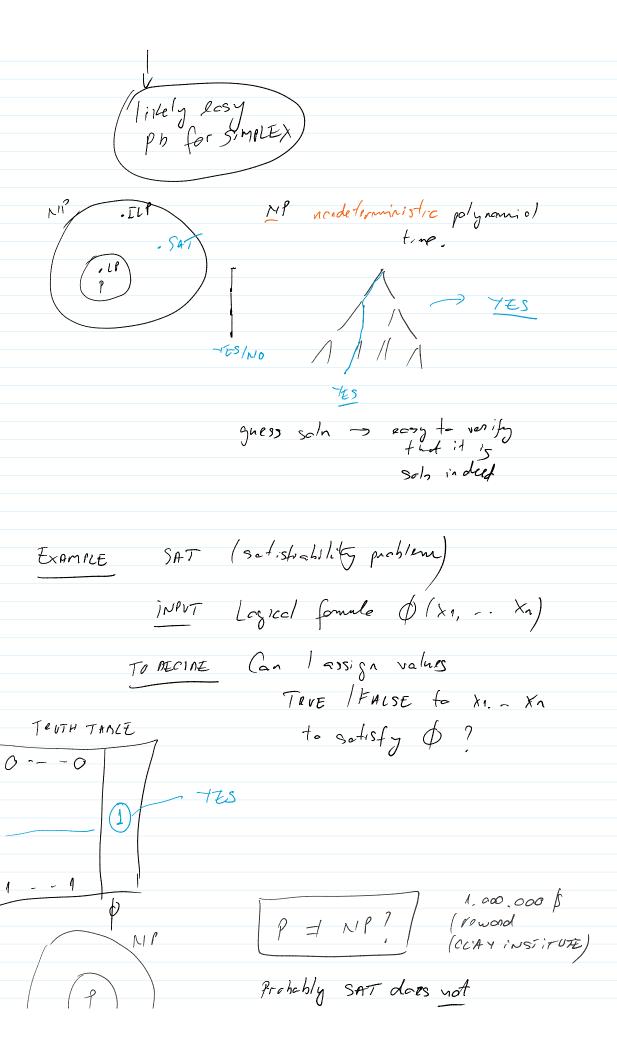
## Algoritums Simplex alg.

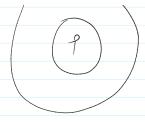
INTERIOR POINT METHOUS



BAO NEWS FEWER) PROBLEMS CAN BE MORECED As L.P.







Prohably SAT does not hosp poly time a gorithing Strakely Ill does not have poly time alss

A , B decision problems

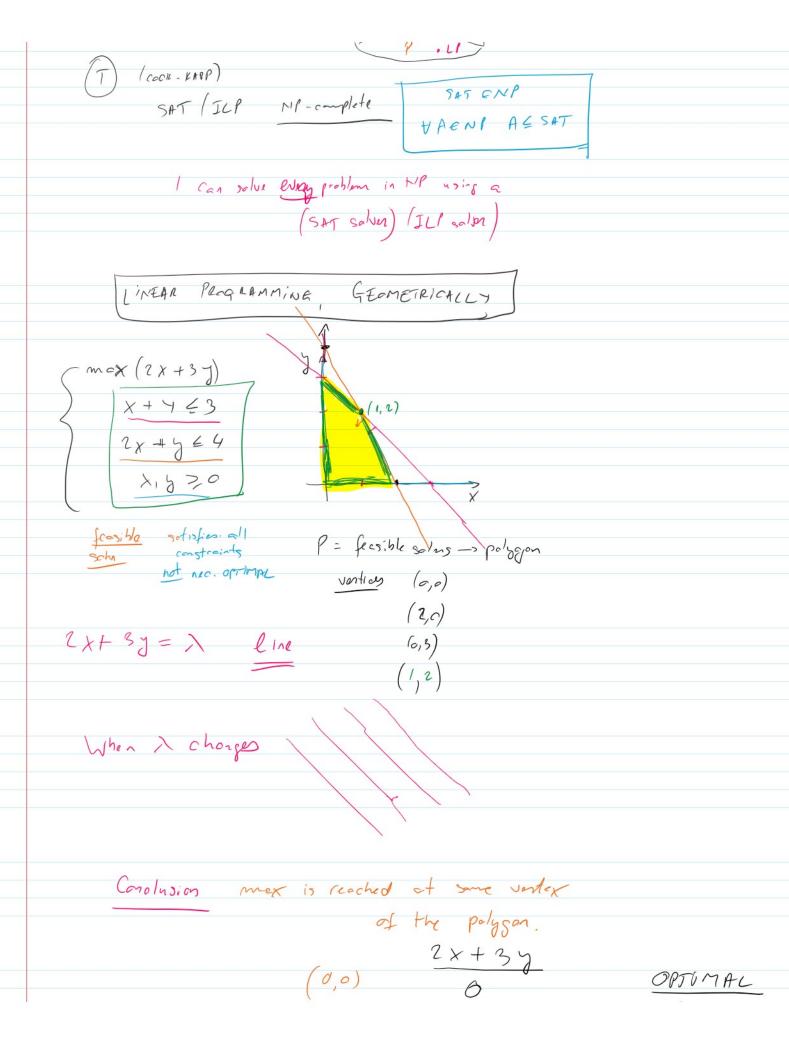
A & B (A reduces to B) I poly time als f

f (x) xeA co f(x)&B

A reduces to B B is "horder" / "mar expression"

ASA AGB, DEC => AEC AEB and BEP two AEP

(T) (coon-KARP)



(0,0) OPTIMAL SOLH (2,0) 4 (c,3)X = 0 GPT y = 3 Salm (1, 4)

WHAT CAN GO WRONG?

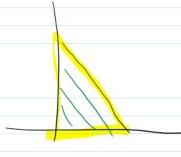
(1) Problem is incompatiBLE (INFEASIBLE)

EXP GOS STATION PS.

TOTAL GAS 1 ton

Tatal demand 2 tang

(2) INFINITELT MAN Y SOLTIS,



(3) INFINITE OPTIMUM

(4) n vonables

good NEWS Set of feasible colors in Polyhadran

BAD NEWS exporentially many (on h)