- 2) Demoistramos que es NP D(XP)
- Systeccionamas un broplema
 - 3) Hackwar Jarbgnacige geste
 - 17 SAT-73SAT X-SAT × >3
 - 2) 3 SAT-7 IP (Prog-Entro)
 - 3) 38AT- VC
 - 4) VC- Clique

Cosas en comon

A -> B

$$I(A) \longrightarrow I(B)$$

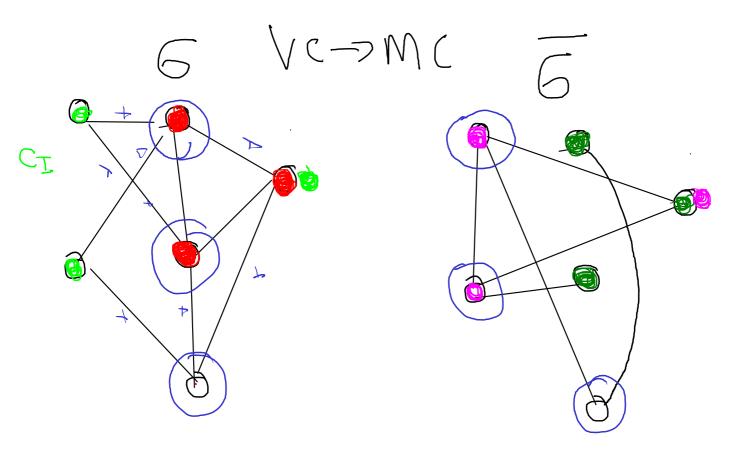
$$O(n^{x}) \text{ Polinomial}$$

$$O($$

- 1) Una reducción dis camplejidas

 O(3ⁿ) ¿Es válida?
 - R/No, porque NO es polinomigl
- 2) Se punde hace, reducción de A-B, Suponied. BSpA

 NO, -> A SpB



$$CI = 3$$

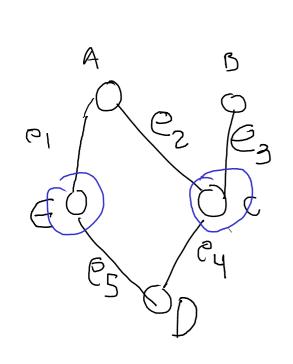
$$MC = 3$$

$$CI = 3$$

MC = Mgximo Clique

Reducción de dos posos.

$$VC \longrightarrow CI \longrightarrow MC$$



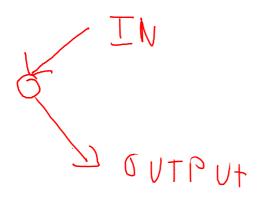
Tamaño chique (Subset-Sum)
$$t = 2x45 + \sum_{j=0}^{4} 2x4^{j} = 2730$$

$$XE = 45 + 44 + 40 = 4281$$

 $XC = 45 + 43 + 47 + 41 = 1108$

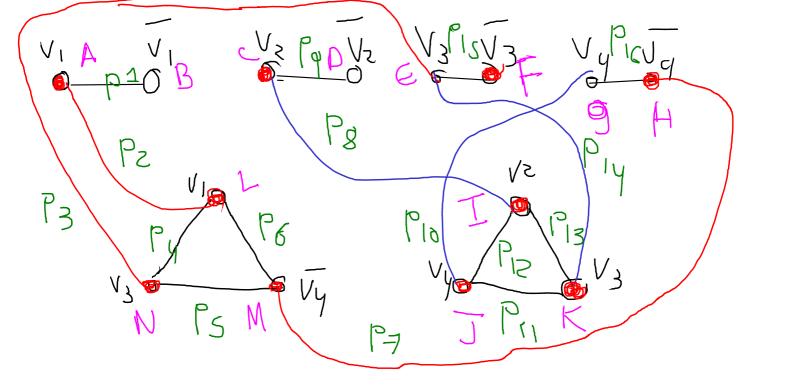
$$\{44, 43, 42, 41, 40\}$$
 Arrstos
 $(21, (23, (23, (24), (25)))$
 (238) (24)

Cicla Hamiltaniana



3-SAT >> SubsatSum

3-SAT -> VC



K=10 ic

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$$t = K.4 + \sum_{j=0}^{|E|} 2x4^{j}$$

$$t = 10x4^{16} + 2(4^{16} - 1)$$

$$t = 10x4^{16} + 2(4^{16} - 1)$$

$$A = 4^{16} + 4^{15} + 4^{14}$$

$$C = 4^{16} + 4^{1} + 4^{1}$$

$$F = 4^{16} + 4^{14} + 4^{17} + 4^{10}$$

$$M = 4^{16} + 4^{14} + 4^{17} + 4^{10}$$

$$M = 4^{16} + 4^{14} + 4^{17} + 4^{10}$$

$$M = 4^{16} + 4^{14} + 4^{17} + 4^{10}$$

$$M = 4^{16} + 4^{14} + 4^{17} + 4^{11}$$

$$\frac{1}{1} = 4^{16} + 4^{16} + 4^{17} + 4^{11}$$

$$\frac{1}{1} = 4^{16} + 4^{16} + 4^{17} + 4^{11}$$

K=416+43+42