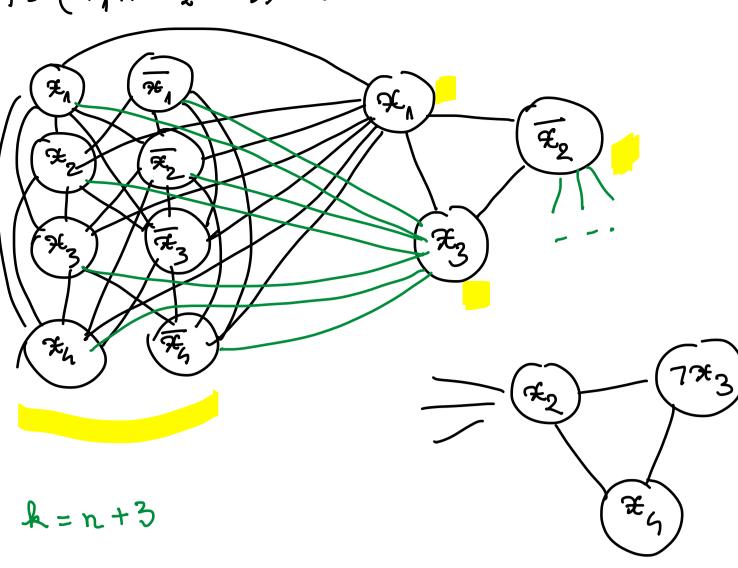
Reduceri

Thursday, 28 May 2020

1) 3DNF ~ CLIQUE

$$\varphi = \left(\begin{array}{c} \varkappa_{1} \wedge 7 \varkappa_{2} \wedge \varkappa_{3} \right) \vee \left(\varkappa_{2} \wedge 7 \varkappa_{3} \wedge \varkappa_{4} \right)$$

14:50



2) Independent set
$$\propto$$
 Vertex cover $(G,k) \longrightarrow (G',k')$

$$G_{3}k$$

$$G_{3} = G$$

$$K = n-k$$

$$3$$

$$|A| \ge k/.=$$
 $-|A| \le -k/=$ $|S| = |V| - |A|$

"="
$$fie S$$
 vertex cover =) $\forall (i,j) e E$ avem $|S| \in k'$ $i \in S$ saw $j \in S$ =)

$$=$$
 $(v,w) \notin E =$

$$\Rightarrow$$
 $A = V \setminus 5$ ind set.

$$|A| = |V| - |S| \ge n - k$$

 $|S| \le k' = |S| \ge -k'$