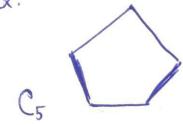
	CURS 7	03.04.2016.
	AG	
$\cup$	A service of the serv	
	Cuplaje	/ .
	1) Def. Notatu. Scop. Exemple	
	G = (V, E) graf simple M C =	
		,
	M cuplaj ⇔ te, f∈M, e+f: e	$f = \emptyset$
	ex:	
	M	
	M2 M3	
	Cuplaje.	
	M* ruplaj de cardinal maxim in G	
	V(M):= Ue exm	
	$v \in V(G)$ , $M$ cupley $v \in V(M)$ $\exists e \in M \text{ en } v \in M$ $\exists e \in M \text{ en } v \in M$	
	Or March of Cuplar	
	Manufal (=) The V(M)	
	JEEM en ve	e: = to evg)
vl M.	soha la 16 na)	v este saturat V(G) = V(M)
0		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
yf.M-n	nesetural V(M) · o · o · o	<b>©</b> .
	V(G) -V(M) M cuple perket	
	V(G) -V(M) M cuplei perfect	



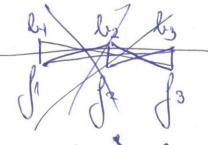
$$\begin{array}{c|c}
5 & 4 \\
6 & 3 \\
7 & 4
\end{array}$$

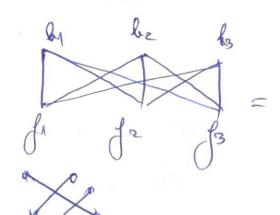
$$\begin{array}{c|c}
6 & 3 \\
7 & 4
\end{array}$$

$$\begin{array}{c|c}
7 & 3 \\
7 & 4
\end{array}$$

## Caz particular

K33





son alle reuplaje 1 × + × + X 2. Pregatiri MC E ruplaj P= x,y-land M- alternant => Plant elementer X,Y, M:= E-M. P x,y - lant M - alterment deschus / crescator.

X,y M- mesaturate Proper: transfer de-a lungul unui lant M-alt deschus

fransfer bogat au o mucho.  $\left(M'\right) = \left|M\right| + 1$ M' = MAE(P) Diferenta simetrica a doua multimi  $X_1Y$   $X \Delta Y := (X-Y) \cup (Y-X)$ M1, M2 ruplaje diferite [MI A M2] graful sudes de MILIME Ouce vorf. V[MISM2]: d[MISM2] (v)

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o comp. conexà delle [M1 & M2] este f bent elem M1, M2-alt.

tipuri.
ti: MI
tz: M2 M2
to: Me
ty: san san san
la tipul te
$M_1$ $M_2$
to >
t <sub>3</sub> =
ty =
3) Caract cuplajelor de cardinal maxim, M*. Th. hui Berge
(Borge) G=(V, E) MC E cuplai M cuplai de cordinal maxim = & mu cont. lanturi M-alternaute deseluse
lantivi M-alternaute deseluse

2)em: = + FO |MI = /H\*/ 7 R. A J. 7 land M-alt. deschis M': = M & E(P) cu M' cuplaj îm G |M'| = |M| +1 > |M| = |H+) do 2 G nu contine lanturi M-alternate deschise R.A M mu est cuplaj de cord. maxili. Fire M+ un laplaj de card maxim. =) M + H =) M A M\* + Ø M=(M NM\*) U (M-M\*) [M & M\*] M\* = (M D M\*) i (M\*-M) M\*/> IM/ = I o comp conexa cu [M > M\*] care cont. mai multe muchu din Mª deest M.

M M\*

J um laut M, M\*-alternant de

tz

Tip tz (core are în capete

muchii din M\*): P

P este lant M elt. deselus. No

Beci M e cupl. de cord maxili.

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