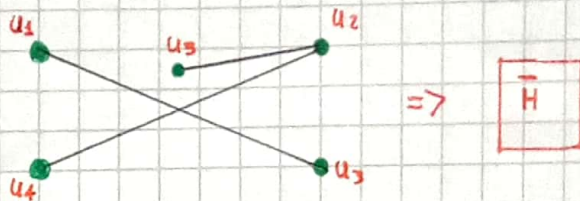
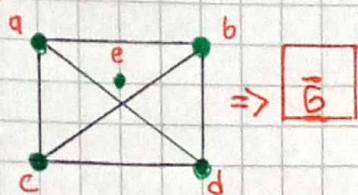


Teoría de grafos - Taller #1

Integrantes: Ángel López, Giancarlo González.

1

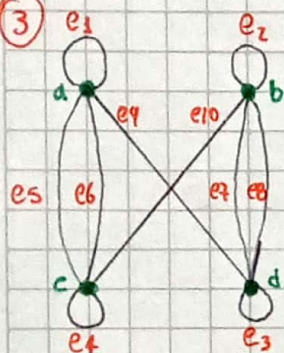


2

Conjunto independiente de tamaño máximo en el grafo G : $\{a, b, c, d\}$

Clique de tamaño máximo en el grafo H : $\{u_1, u_2, u_3\}$ & $\{u_3, u_4, u_5\}$

3



Matriz adyacencia:

	a	b	c	d
a	1	0	2	1
b	0	1	1	2
c	2	1	1	0
d	1	2	0	1

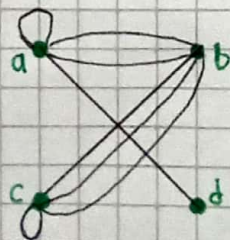
Matriz incidencia:

	e_1	e_2	e_3	e_4	e_5	e_6	e_7	e_8	e_9	e_{10}
a	1	0	0	0	1	1	0	0	1	0
b	0	1	0	0	0	0	1	1	0	1
c	0	0	0	1	1	1	0	0	0	1
d	0	0	1	0	0	0	1	1	1	0

4

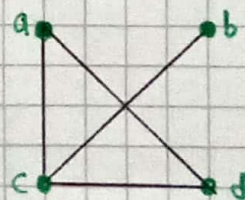
	a	b	c	d
a	1	2	0	1
b	2	0	3	0
c	0	3	1	1
d	1	0	1	0

=>



	a	b	c	d
a	0	0	1	1
b	0	0	1	0
c	1	1	0	1
d	1	0	1	0

=>



5

	A_1	$A_2 \dots A_n$
A_1	$A_1 \times A_1$	$A_1 \times A_2 \dots A_1 \times A_n$
A_2	$A_2 \times A_1$	$A_2 \times A_2 \dots A_2 \times A_n$
\vdots		
A_n	$A_n \times A_1$	$A_n \times A_2 \dots A_n \times A_n$

=> Forma general de la matriz de adyacencia del grafo P_n .