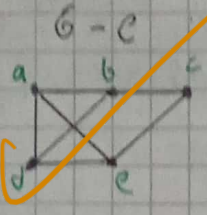


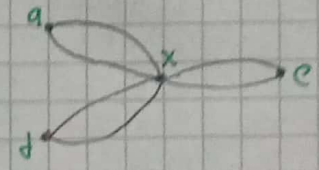
Gianncarlo Gonzalez, Ángel Lorez

1

a)



$G \cdot e$



b)

$\tau(G - e) = 7, \tau(G \cdot e) = 6$

c)

	a	b	c	d	e
a	3	-1	0	-1	-1
b	-1	4	-1	-1	-1
c	0	-1	2	0	-1
d	-1	-1	0	3	-1
e	-1	-1	-1	-1	4

d)

$\tau(G) = (-1)^{1+4} \begin{bmatrix} 3 & -1 & 0 & -1 \\ -1 & 4 & -1 & -1 \\ 0 & -1 & 2 & 0 \\ -1 & -1 & 0 & 3 \end{bmatrix} = 40$

2

$Q^- =$

	u_1	u_2	u_3	u_4
u_1	1	-1	0	0
u_2	0	1	0	-1
u_3	-1	-1	2	0
u_4	-1	0	-1	2

$Q^+ =$

	u_1	u_2	u_3	u_4
u_1	2	-1	0	0
u_2	0	2	0	-1
u_3	-1	-1	1	0
u_4	-1	0	-1	1

a: 2

b: 2

¿Por qué?

3)

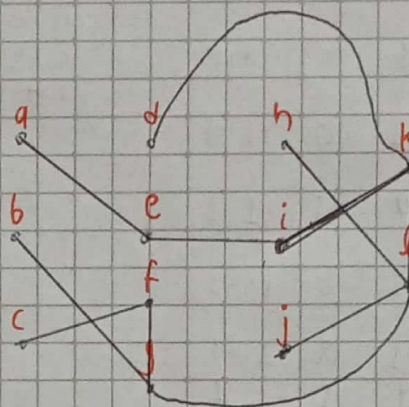
a)

$i \in$	Vértice	Arista
0	g	-
1	b	(g, b)
2	a	(b, a)
3	d	(a, d)
4	e	(d, e)
5	f	(e, f)
6	c	(f, c)
7	j	(c, j)

$i \in$	Vértice	Arista
8	i	(j, i)
9	h	(i, h)
10	l	(h, l)
11	k	(l, k)

b)

$i \in$	L	V	e
1	[g]	g	-
2	[b, f, l]	(b, f, l)	g, g b, g f, g l
3	[f, l]	-	-
4	[l]	-	-
5	[h, j, k]	(h, j, k)	l h, l j, l k
6	[j, k]	h, j, k	-
7	[k]	-	-
8	[j, i]	j, i	k j, k i
9	[i]	-	-
10	[e]	e	i e
11	[a]	a	e a



c)

$$\tau(H) = -3^{11+11} [n_{ij}] = 1-60064 = \underline{\underline{60064}}$$

Matriz??