⊗ David Alfonso Velasco Sedano

7.1

C	α	β	γ	δ	ε
F	5	6	6	11	20

C	αβ	γ	δ	ε
F	11	6	11	20

C	γαβ	δ	ε
F	17	11	20

C	δγαβ	ε
F	28	20

C	εδγαβ
F	48

7.2

α	1110	γ	110	ε	0
β	1111	δ	10		

1.3

$$\varepsilon\, \varepsilon\, \alpha\, \beta\, \delta = 0 \quad 0 \quad 1110 \quad 1111 \quad 10$$

3.1

$A_2 = \{1, 1\}$

$V_1 = 1$
$V_2 = 1$

$A_3 = \{2, 1, 1\}$

$V_1 = 2$
$V_1 = 1$
$V_1 = 1$

$A_4 = \{2, 2, 1, 1\}$

$V_1 = 2$
$V_2 = 2$
$V_3 = 1$
$V_4 = 1$
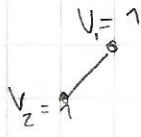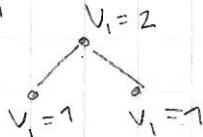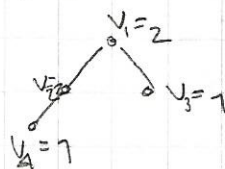
$A_5 = \{3, 2, 1, 1, 1\}$

$V_1 = 2$
$V_2 = 3$
$V_3 = 1$
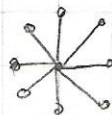$V_4 = 1$
$V_0 = 1$
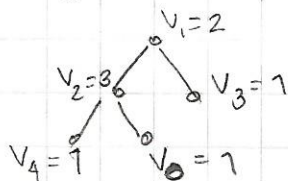
$A_6 = \{3, 2, 2, 1, 1, 1\}$
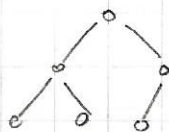
3.2

3.3

Es un árbol que tiene
un vertice que todos
los demás se
conectan a.

3.4

3.5

3.6

No es posible,
no comple con la
propiedad de

#Aristas = #Vertices −1

3.7

$2(V-1)$. Es la somatoria
de los grados. $2E$

$$2E = 2(V-1)$$

3.8

No se puede, debe
cumplir con la propiedad
de

#Aristas = #Vertices −1

3.9

⟵ $2(V-1) = 10 \neq 14$
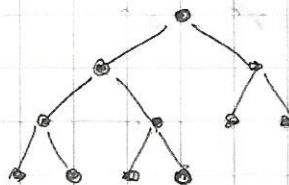
3.10

a) 3
b) $\emptyset$
c) 5
d) U, V
d) d
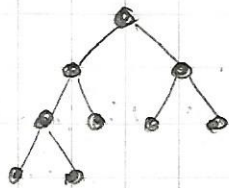f) k, l

3.11

$$(v-1)+2$$

3.12

No se puede,
no comple la propiedad
de

Vertice Interno = Vertice Terminal - 1
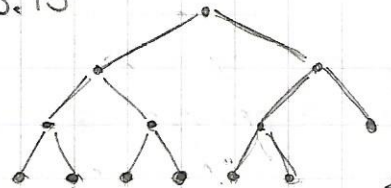
$$5 \neq (7-1)$$

3.13

No se puede, no comple
la propiedad de un árbol binario
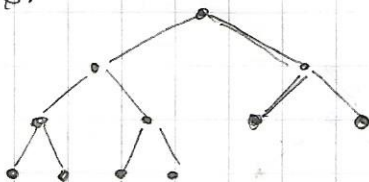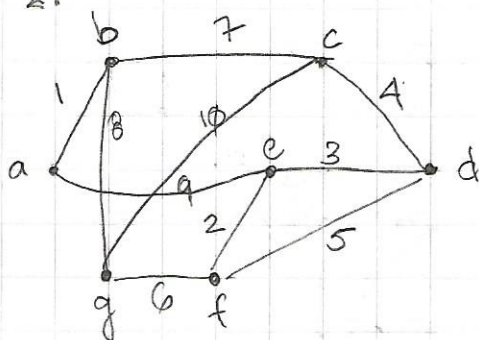teniendo un número impar de
vertices

3.14

3.15

3.16:

3.17

No se puede, el max.
número de vertices
terminales para un
nivel 3 son 8

3.18

3.19

3.20

3. 21

$G = [$

$\{a, b, 1\}$,
$\{f, e, 2\}$,
$\{e, d, 3\}$,
$\{c, d, 4\}$,
$\{f, d, 5\}$,
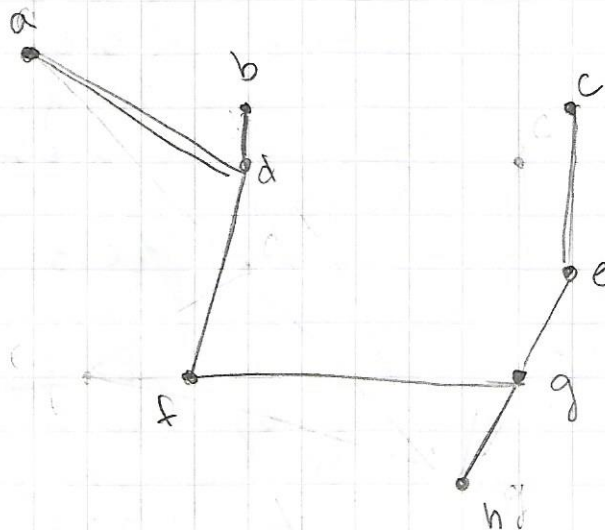$\{g, f, 6\}$, x
$\{b, c, 7\}$,
$\{b, g, 8\}$,
$\{a, e, 9\}$, x
$\{g, c, 10\}]$ x
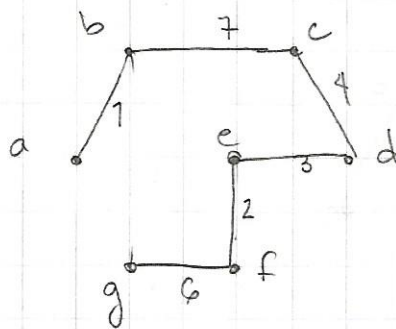
$\{a, b, 1\}$
$\{f, e, 2\}$
$\{e, d, 3\}$
$\{c, d, 4\}$
$\{b, c, 7\}$
$\{b, g, 8\}$

3.22
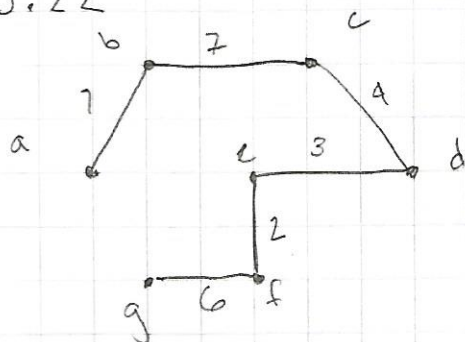
	A		Q	
1.	a		{a,b}	
			{a,c}	
2.	{a,b}		{b,c}	
			{b,g}	
			{a,e}	
3.	{a,b}	{c,g}		
	{b,c}	{c,d}		
		{b,g}		
		{a,e}		
4	{a,b}	{d,e}		
	{b,c}	{d,f}		
	{c,d}	{c,g}		
		{b,g}		
		{a,e}		
5.	{a,b}	{e,f}	{b,g}	
	{b,c}	{c,a}	{a,e}	
	{c,d}	{d,f}		
	{d,e}	{c,g}		
6.		{f,d}	{u,g}	
	{a,b}	{d,e} {f,g}	{b,g}	
	{b,c}	{e,f} {e,a}	{a,e}	
	{c,d}	{d,f}		
7.				
	{a,b} {d,e}			
	{b,c} {e,f}			
	{c,d} {f,g}			

3.23

a) Minneapolis   d) Chicago   h) Nashville
b) Milwaukee   e) Cincinnati
c) Detroit   f) St. Louis

db , 74
ge   83
hg   151
ce   230
fg   242
fd   262