

## Práctico 9 - AYED2

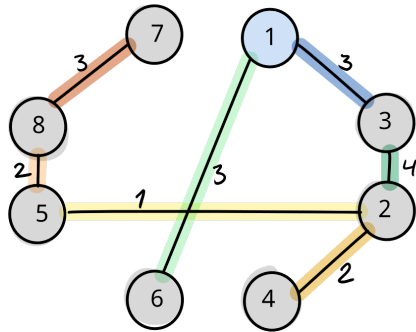
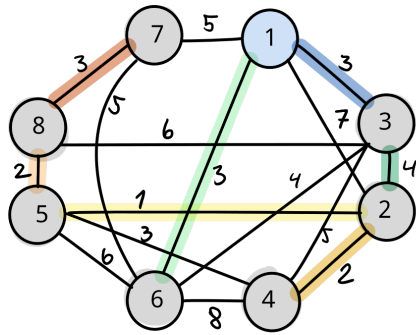
Lautaro Bachmann

## Contents

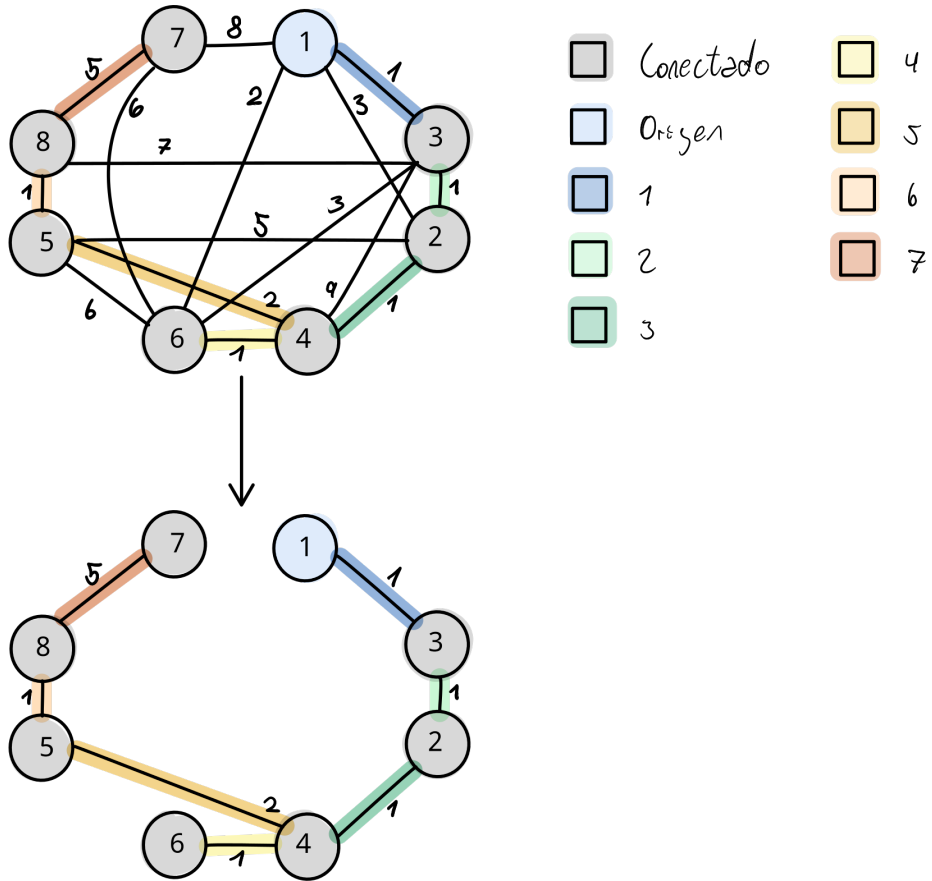
<b>1)</b>		<b>3</b>
a)	.....	3
b)	.....	4
<b>2)</b>		<b>5</b>
a)	.....	5
b)	.....	6
<b>3)</b>		<b>7</b>
a)	.....	7
b)	.....	8

1)

a)

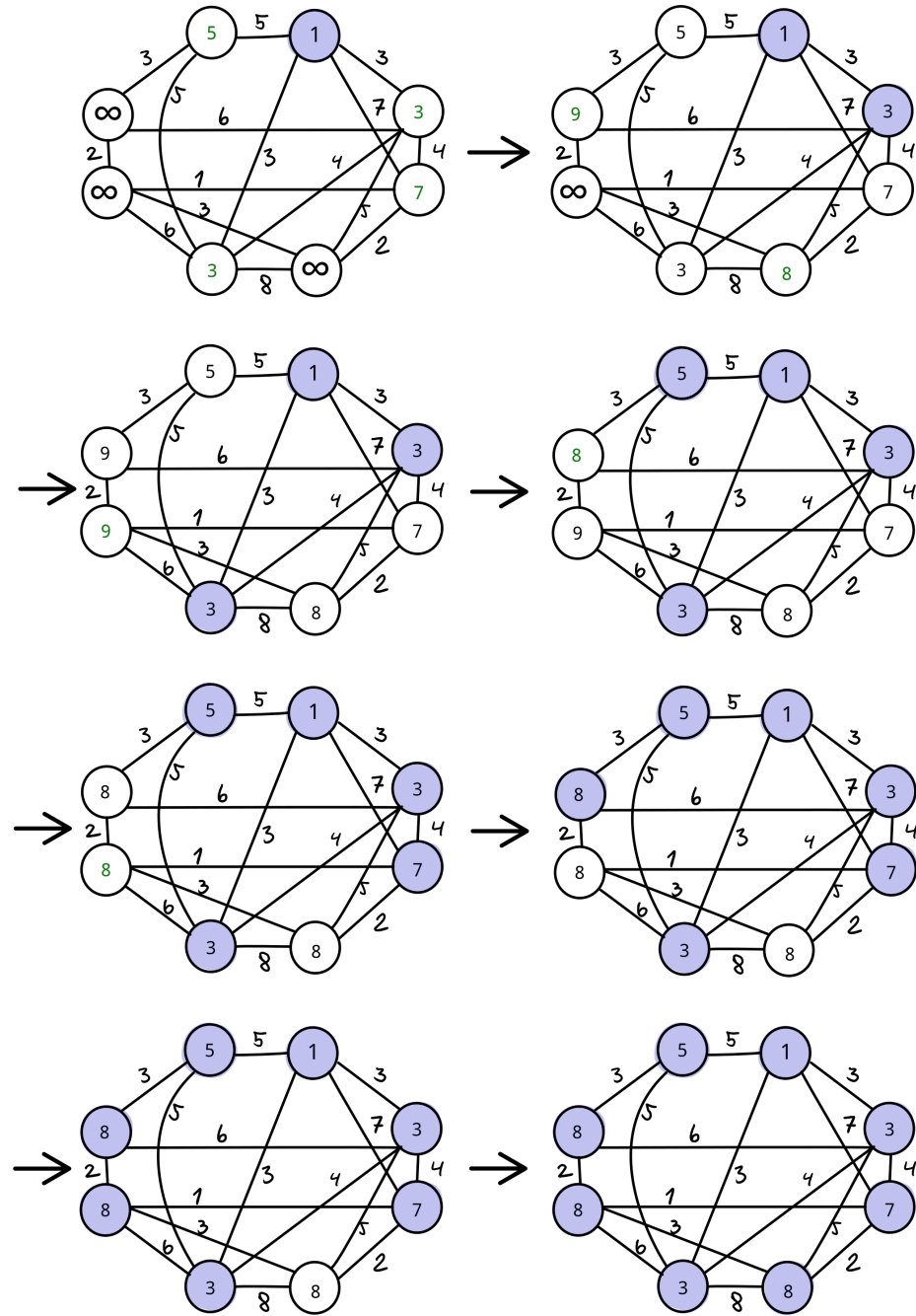


b)

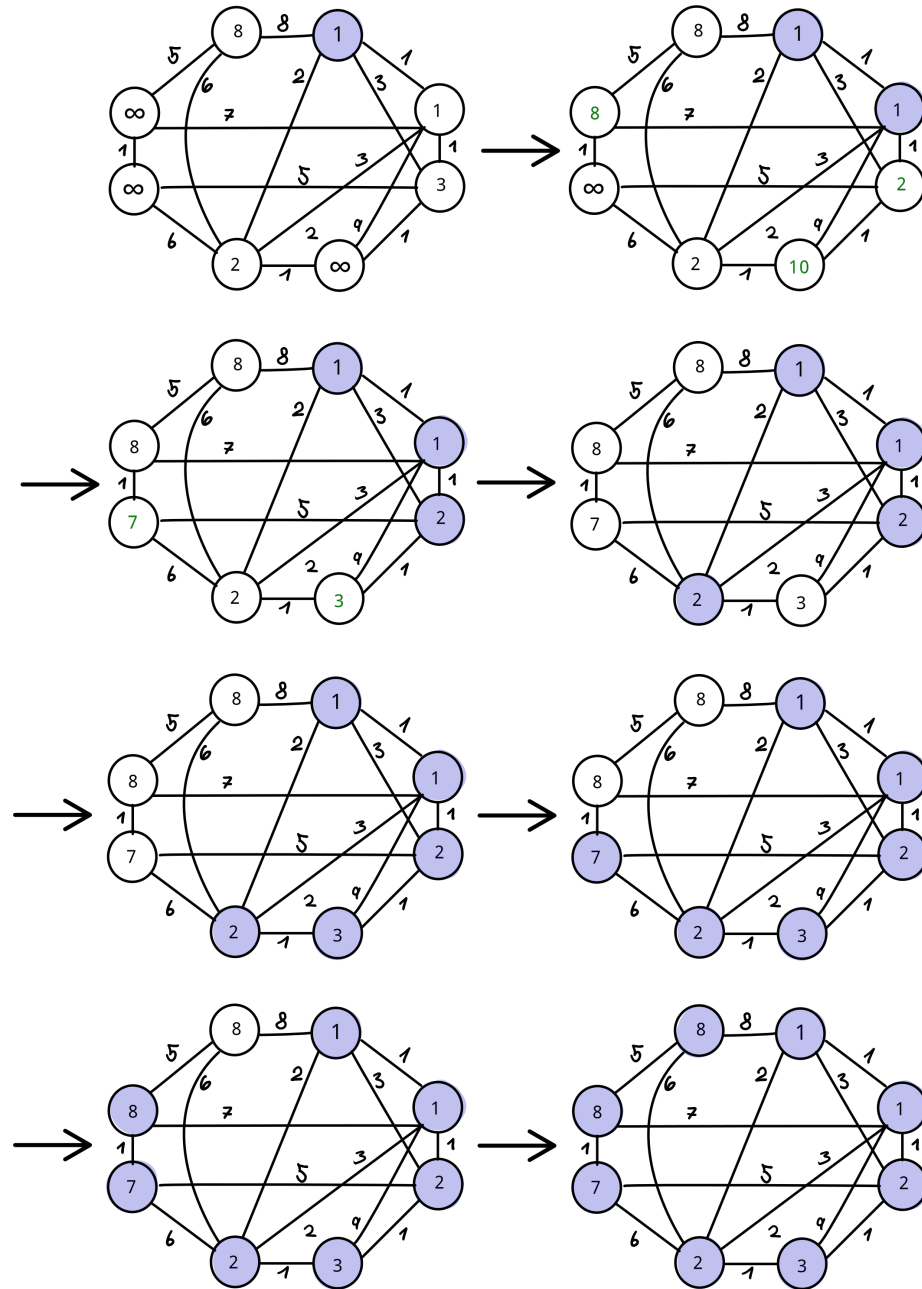


2)

a)



b)

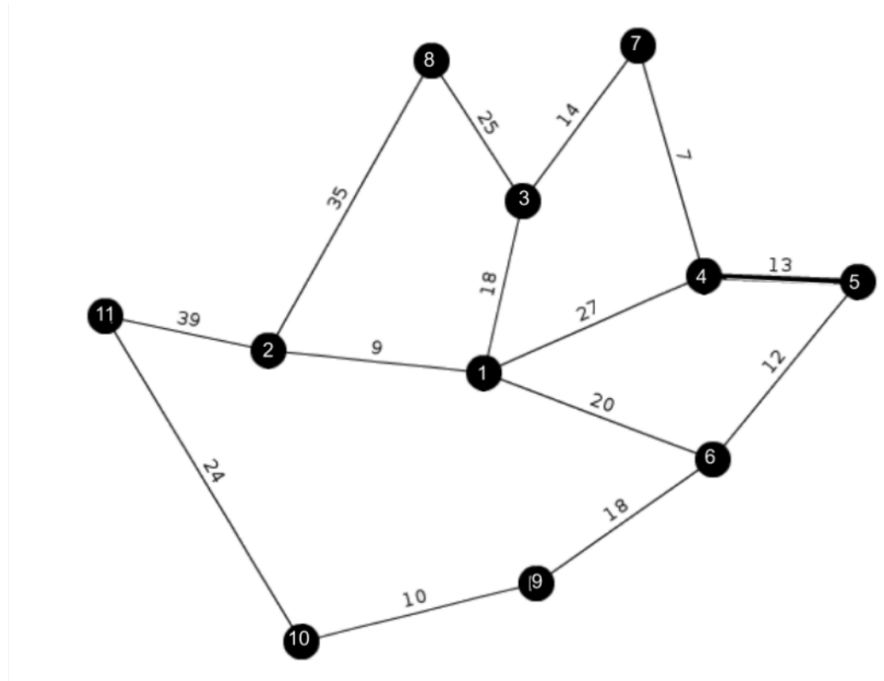


**3)**

**a)**

```
fun litrosNafta(  
  E: array[1..n,1..n] of Nat,  
  C: Set of vertice,  
  v: vertice, L: Nat) ret D : Set of vertice  
  var costos: array[1..n] of nat  
  var c1: Set of vertice  
  var c: vertice  
  D:= empty_set()  
  costos:= djikstra(E, v)  
  c1:= set_copy(C)  
  elim(c1, v)  
  while !is_empty_set(c1) do  
    c:= set_get(c1)  
    set_elim(c1, c)  
    if costos[c] ≤ L then  
      set_add(D, c)  
    fi  
  od  
end fun
```

b)



$C = \{11, 5, 10, 7, 8\}$

$\text{costos} = [0, 9, 18, 27, 32, 20, 32, 43, 38, 48, 48]$

$\text{costos}[11] > 40 \Rightarrow D = \{\}$

$\text{costos}[5] < 40 \Rightarrow D = \{5\}$

$\text{costos}[10] > 40 \Rightarrow D = \{5\}$

$\text{costos}[7] < 40 \Rightarrow D = \{5, 7\}$

$\text{costos}[8] > 40 \Rightarrow D = \{5, 7\}$