Activity - Theorical

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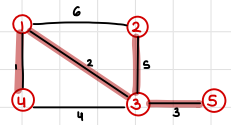
1)



Kruscal's

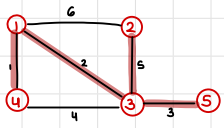
- Num V = 5
- Num E = 6
- V = {1, 2, 3, 4, 5}
- E = {(1,2,6), (1,3,2), (1,4,1), (2,3,5), (4,3,4), (3,5,3)}

Orden:

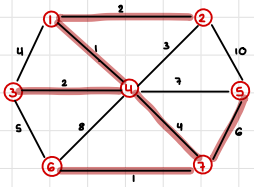
	Vi	Ve	Weight
•	1	4	1
•	1	3	2
•	3	5	3
	4	3	4
•	2	3	5
	1	2	6

Prim's

- arbitrary vertex ; selected : 1
  - 1 to 4 cause min weight
  - 1 to 3 cause min weight
  - 3 to 5 cause min weight
  - 3 to 2 to not cycle with 3 to 4



2)



Kruscal's

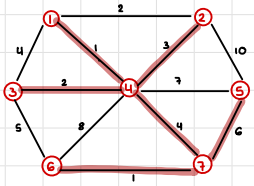
- Num V = 7
- Num E = 12
- V = {1, 2, 3, 4, 5, 6, 7}
- E = {(1,4,1), (1,2,2), (1,3,4), (2,4,3), (2,5,10), (3,4,2), (3,6,5), (6,4,8), (6,7,1), (7,4,4), (7,5,6), (5,4,7)}

Orden

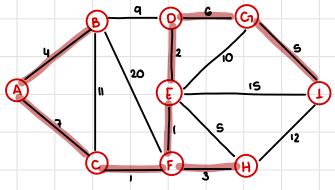
	Vi	Ve	Weight
•	1	4	1
•	6	7	1
•	1	2	2
•	3	4	2
	2	4	3
	1	3	4
•	4	7	4
	3	6	5
	5	7	6
	5	4	7
	6	4	8
	2	5	10

Prim's

- arbitrary vertex ; selected 1
  - 1 to 4 cause min weight
  - 4 to 3 cause min weight
  - 4 to 2 cause min weight
  - 4 to 7 to not loop (1 to 2)
  - 7 to 6 cause min weight
  - 7 to 5 cause min weight



3)

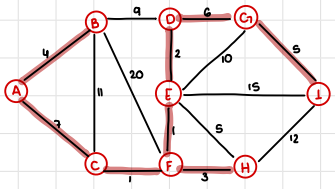


Kruscal's

- Num V = 9
- Num E = 15
- V = {A, B, C, D, E, F, C1, H, L}
- E = {(A,B,4), (A,C,7), (B,C,11), (B,F,20), (B,D,9), (C,F,1), (D,E,2), (D,C1,6), (E,F,1), (E,C1,10), (E,H,5), (E,L,15), (F,H,3) (C1,L,5), (H,L,12)}

Orden

	Vi	Ve	Weight
•	C	F	1
	E	F	1
•	D	E	2
•	F	H	3
•	A	B	4
	E	H	5
•	C1	L	5
•	D	C1	6
•	A	C	7
	B	D	9
	E	C1	10
	B	C	11
	H	L	12
	E	L	15
	B	F	20



Prim's

- arbitrary select : selected A
  - A to B min weight
  - A to C min weight
  - C to F min weight
  - F to E min weight
  - E to D min weight
  - F to H min weight
  - D to C1 min weight
  - C1 to L min weight