(H) . Nearest neighbour (urp-intro diopo 32) - ber flower front (4) 2. Hinimum spanning tree (" (H) 3. Interconvi ~ tour milloras-Suporem que tením la següent toula de cortos: 30 15 30 ız (which 15 2 3 30 13 X 16 9 7 30 8 × 8 × 12 13 4 agricon rade 2 ~ T=Ø p = 2 2. quedien not labelled 3. burguem minim was, marcon-lo → Usarest neighbour: (neuristica.) (P) Selectionar on rade ield, donor-ii un loubel i fer T=15 i p:= i 2. quedien sense 2) In ( both et nodies benen Label ) 3. Winim ~ 6, morces-to ---- T és un circuit homiltarià 2. queden 3. minim up 4, marcar-le 3) Sesectionar on was ? some Proes pardne Cpj = HIN 1 Cpx 1 K not loweled } T=TO1CPIL 2. overen 3. minim up 3, marcas-le raper? let p = j 2. overlen ap 40 (2) 3. minim ut a, marcas-le 2. T= ( (6,6) (6,4) (4,3) (3,1), (42) } Hinimum spounning tree (non'Thice) a. Troboar un Hinimum Spanning Tree del graf. 2. Dodger tots es arcs # > es un camino que pasa por cada arista una y solo una vez 3. 3.1. Determinar un circut evenà del grop amb els arcs distrats --> C 3.2. Assignar una anientació a C 3.3. Selectionar rade ; babelit ; per ) T=0 4. If (both els nodies benen label) ---- T és un circuit hamiltorià T= TO \$(i, 0) 5. Tradoct sequent rade sence label , per 15 30 30 ız T:= To 1(p,q)} 15 Lowel 9. Tho rope 5 30 30 p:-9 × 9 ન્દ anar a 4 30 8 × 7 termoco: 6

A. Fer anone up métade de prim (avaix)

Resolute TSP mitjançant el que nem unt

## Augoritme de Prim per trotor Hinimum Spenning tree

- 1. Select an arbitrary node w∈V, make ST:= Ø, W:={w}, V:=V\W
- 2. If V=Ø END. ST is a "Minimum Spanning Tree"
- 3. Select an arc (u,v)  $\in A$  with  $u \in W$  and  $v \in V$  such that:

 $c_{uv}^{} = Min \left\{ \right. c_{e}^{} \left. \right| e \in \delta \left( W \right) \left. \right\} \quad (\delta \left( W \right) = \left\{ set \ of \ arcs \ of \ A \right\}$ 

with a node in W and other in V })

4. Make:

$$ST := ST \cup \{(u,v)\}$$

$$W := W \cup \{v\}$$

$$V := V \setminus \{v\}$$

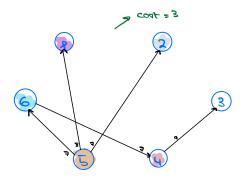
Go to 2.

P. Triem 5 aleatorionment

2. Next

3. agapem (?,5) talque?

30 fp 2



2. Vext

tinglicont minim. (6,5)

2. Next



2. Next

2. Next

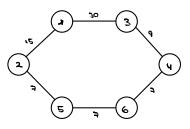
- Heuristica de convi 2 a 2.

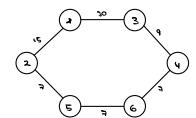
Tenim un gras aptimiteat pel TIP amo cont = 75

way over to coupling

→ Provem els intercanvis entre 2-3; 5-6

i 6-4 ; 2-5





(113) (6,4) ~~