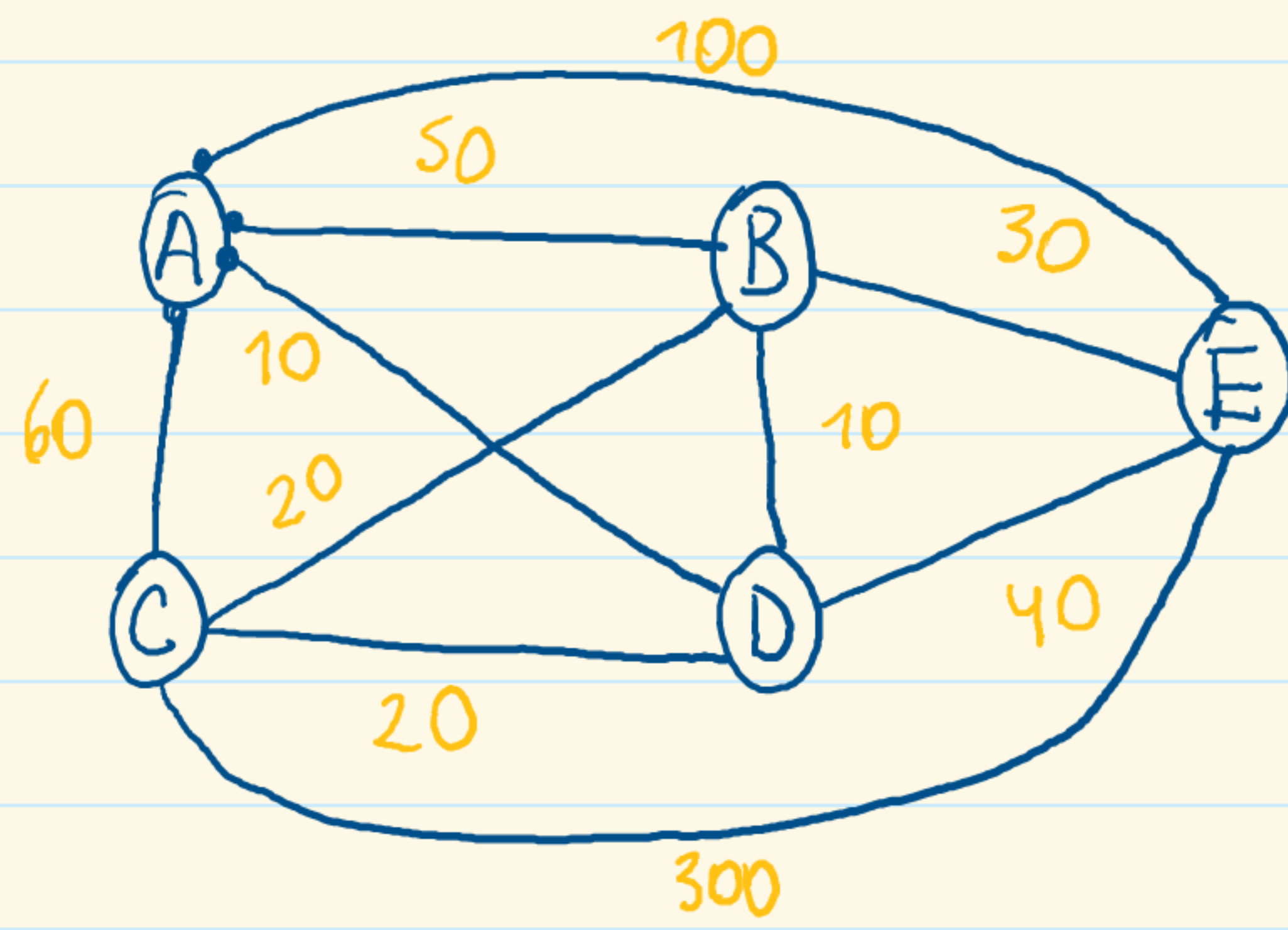


[https://drive.google.com/file/d/1--B9ncPrr60Fai-4K\\_2UTFcg01C4of6E/view?usp=drivesdk](https://drive.google.com/file/d/1--B9ncPrr60Fai-4K_2UTFcg01C4of6E/view?usp=drivesdk)

## ejercicios

### 1) Greedy



obj: mín costos

- Representación = 

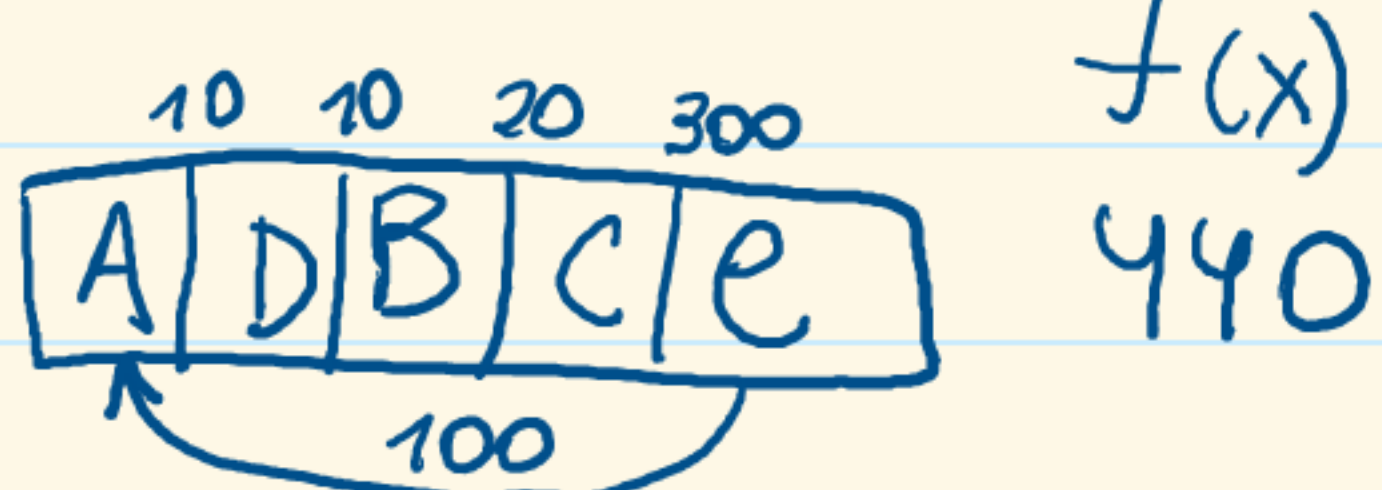
--	--	--	--	--

 → secuencia de visita  
→ permutación de valores

- f. de evaluación =  $\sum$  costos
- f. miope = el vecino más cercano "permitido"

explot.

pto partida A:



P <sub>0</sub>	sol	f(x)
B	B D A C E	410
C	C B D A E	440
D	D A B C E	420
E	E B D A C	410

### 2) HC MM

sol = A-C-D-E-B

mov = intercambio entre ciudades contiguas

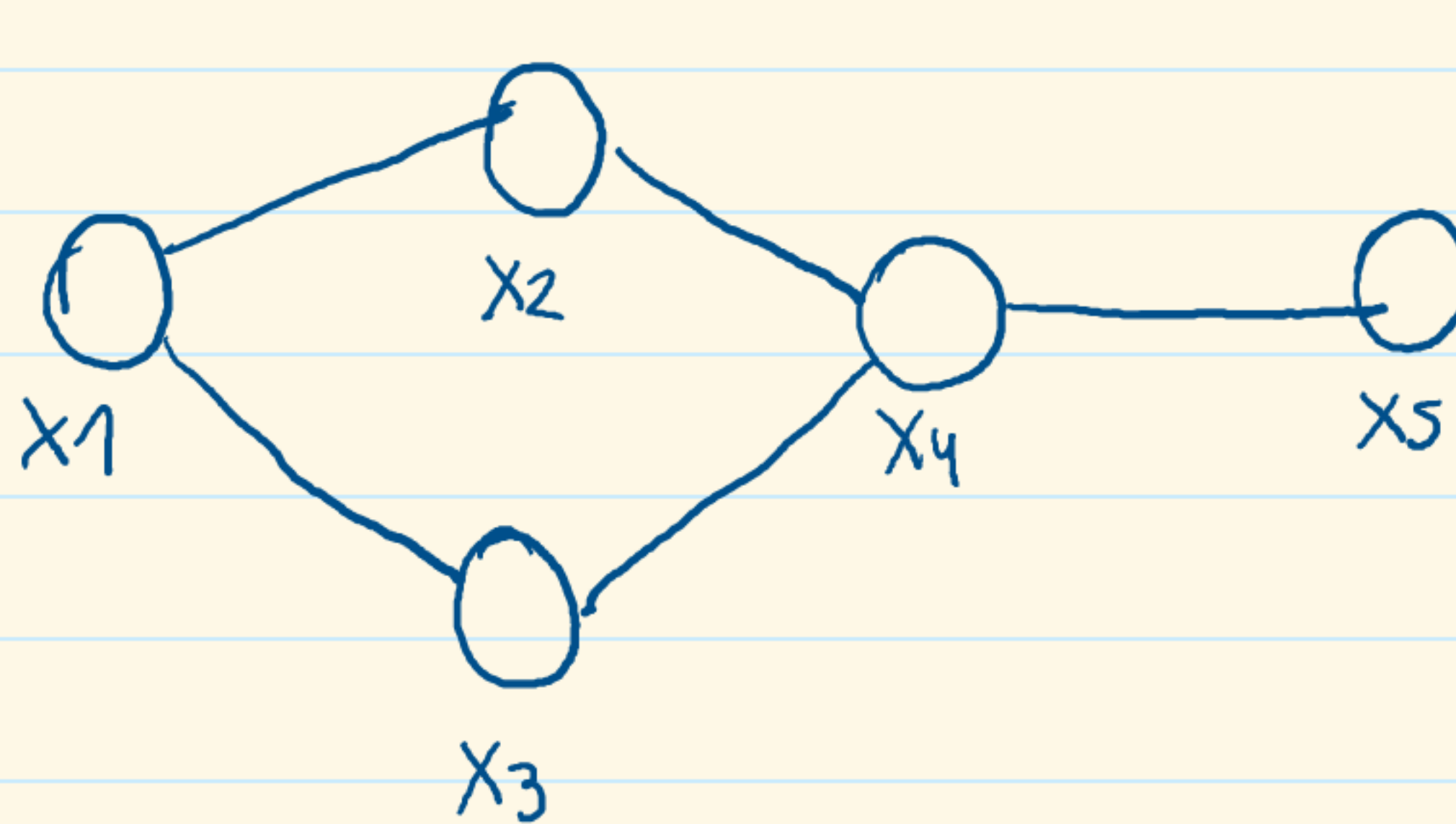
A C D E B	→ Sol	f(x)															
200	<table><tr><td>C</td><td>A</td><td>D</td><td>E</td><td>B</td></tr><tr><td>60</td><td>10</td><td>40</td><td>30</td><td></td></tr><tr><td></td><td></td><td>20</td><td></td><td></td></tr></table>	C	A	D	E	B	60	10	40	30				20			160
C	A	D	E	B													
60	10	40	30														
		20															
	A <table><tr><td>D</td><td>C</td></tr></table> E B	D	C	410													
D	C																
	A C <table><tr><td>E</td><td>D</td></tr></table> B	E	D	460													
E	D																
	A C D <table><tr><td>B</td><td>E</td></tr></table>	B	E	220													
B	E																
	<table><tr><td>B</td></tr></table> C D E <table><tr><td>A</td></tr></table>	B	A	230													
B																	
A																	

C A D E B	→	sol	f(x)
160		A C D E B	150
		C D A E B	160
		C A E D B	210
		C A D B E	
		B A D E C	

## Otro ejemplo

3-Coloring

HC. AM.



- Representación = 

--	--	--	--	--
- f(x) eval. = mín # R<sub>y</sub> insatisfechas
- mov. = cambiar el color actual

A	A	A	A	A
---	---	---	---	---

 f(x)

S

RGB

→ A A A A A

→ R A A A A