Ē,	0 0	Cm+1 Ch Em
6, : : : : :	0 0	<u> </u>

" The entry the bosis" 
$$\rightarrow \tilde{C}_{i} = c_{i} - (\bar{c}_{i}/\bar{c}_{th})\bar{c}_{t+1} \approx 0$$
,  $\forall i$ 

$$\bar{c}_{i}^{\dagger} \approx \frac{\bar{c}_{t}}{\bar{c}_{th}}\bar{c}_{t+1} \approx 0 \rightarrow \text{ we limit}$$

$$\bar{c}_{i}^{\dagger} \approx \frac{\bar{c}_{t}}{\bar{c}_{th}}\bar{c}_{t+1} \Rightarrow \bar{c}_{t+1} \approx 0 \rightarrow \text{ we limit}$$

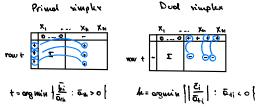
$$\bar{c}_{i}^{\dagger} \approx \frac{\bar{c}_{t}}{\bar{c}_{th}}\bar{c}_{t+1} \Rightarrow \bar{c}_{t+1} \approx 0 \rightarrow \text{ we limit}$$

$$\bar{c}_{i}^{\dagger} \approx \bar{c}_{t+1} \approx 0 \rightarrow \text{ we limit}$$

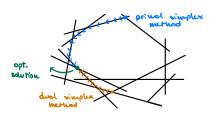
$$\bar{c}_{i}^{\dagger} \approx \bar{c}_{t+1} \approx 0 \rightarrow \text{ we limit}$$

$$\bar{c}_{i}^{\dagger} \approx \bar{c}_{t+1} \approx 0 \rightarrow \text{ we limit}$$

$$\bar{c}_{t+1}^{\dagger} \approx 0 \rightarrow \text{ we limit}$$



New objective function is now worse than before

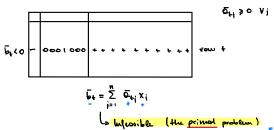


The dual rimplex method is may faster than the primal simplex method We can apply the bloom's rule to the dual seimplex method to be sure it doesn't loop and that it reaches the optimal solution.

Zat > OT: find a book B: ET = CT - CEBA > OT

If the mitiolisation is problematic, opply the primal simplex method

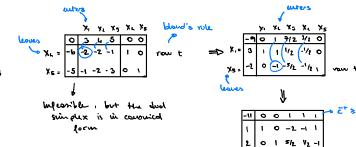
## Problemenic cose:



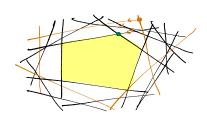
to Refer to X, not to y, so

Es:

$$\begin{cases} \text{min} & 3x_1 + 4x_2 + 5x_3 \\ 2x_1 + 2x_2 + x_3 - x_4 = 6 \\ x_1 + 2x_2 + 3x_3 - x_5 = 6 \\ x_1, x_2, x_3, x_4, x_5 > 0 \end{cases}$$



## Raw / Constroints generation



I start by considering a problem with a few variables and find an optimal solution

Le is it feasible?

[No

Add costroints and repeat

This metad is the vow/constraints generation and works really well with the dual rimplex method

Es:

