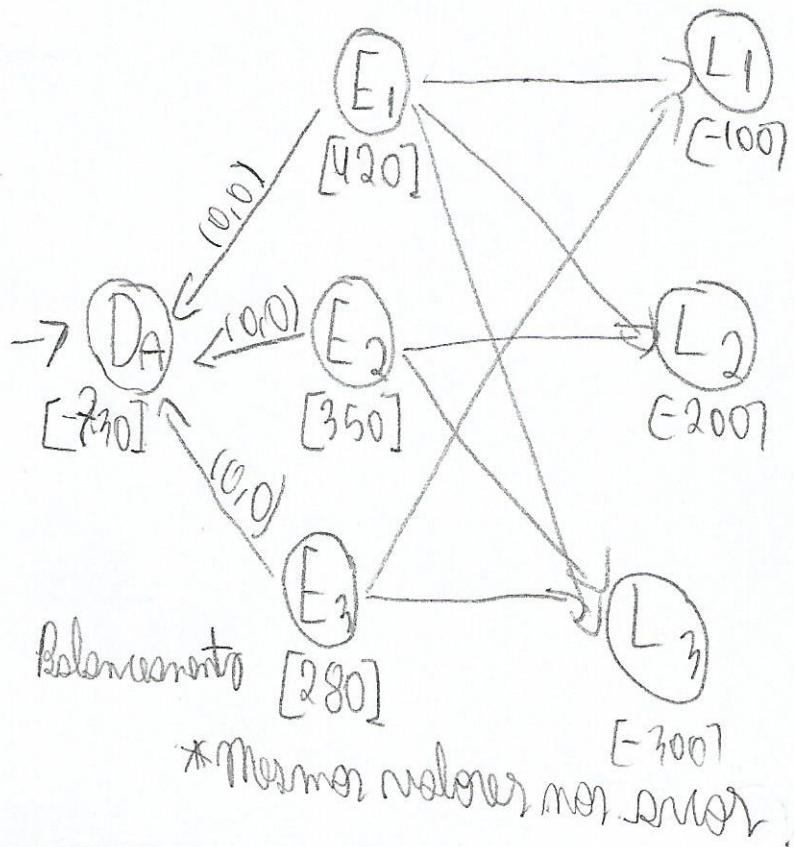
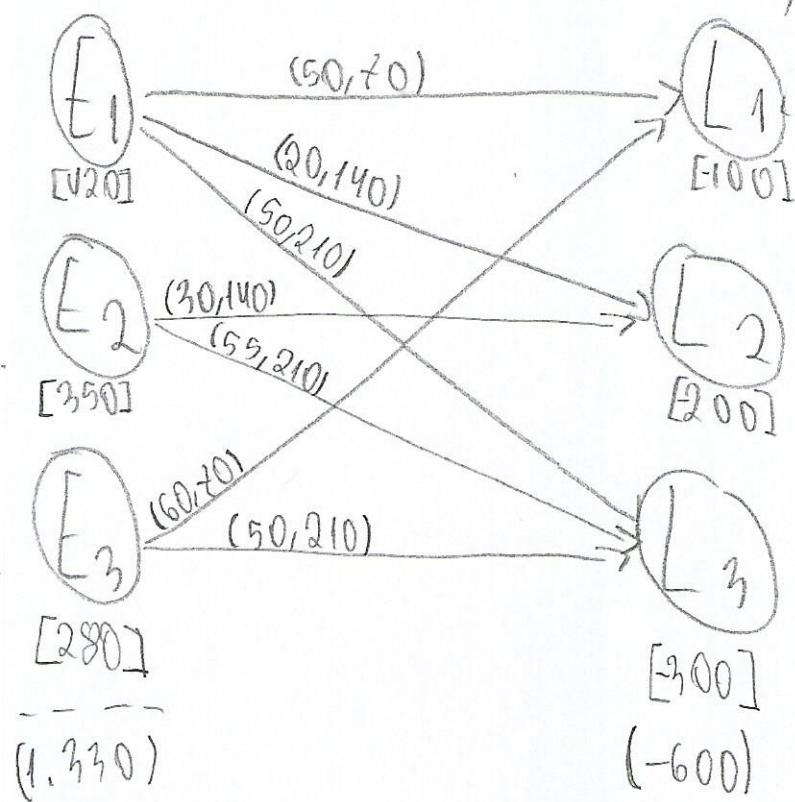


Máster Geraldo Braga Emiliano 19.1.4012

Rede:  $E_i = \text{Empresa } i$ ,  $L_i = \text{Loja } i$ , (nótesse, fluxo máximo)



Modelo

\*A = demands satisfeitas

$x_{ij} \Rightarrow$  quantidade utilizada pela empresa  $i$  na loja  $j$ .

Objetivo

$$\max \text{ lucro} = 50x_{11} + 20x_{12} + 50x_{13} + 30x_{21} + 55x_{22} + 60x_{23} + 60x_{31} + 50x_{33};$$

restrições:

$$\begin{aligned} x_{11} + x_{12} + x_{13} + x_{1A} &= 420 \\ x_{21} + x_{22} + x_{23} + x_{2A} &= 350 \end{aligned}$$

$$\begin{aligned} \text{fluxos: } x_{11} &\leq 70; x_{12} \leq 140; x_{13} \leq 210 \\ x_{22} &\leq 140; x_{23} \leq 210; \\ x_{31} &\leq 70; x_{33} \leq 210; \\ x_{ij} &\geq 0; \end{aligned}$$

lembrete



Universidade Federal de Ouro Preto

MARCOS GERALDO BRAGA EMILIANO



CIÉNCIA DA COMPUTAÇÃO

MATRÍCULA: 19.1.4012

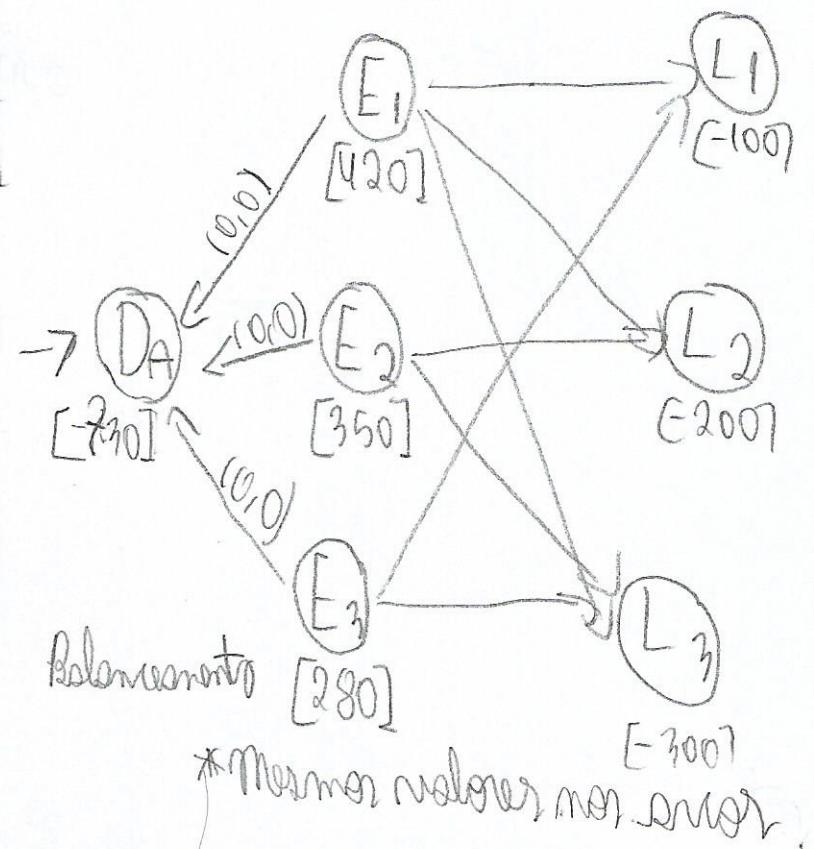
VALIDADE: 31/12/2024

UFOP

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Máster Gerald Braga Emiliano 19.1.4012

Redo:  $E_i = \text{Empresa } i$ ,  $L_i = \text{Local } i$ , (reto, fluxo maxima)



Modelo

$x_{ij} \Rightarrow$  uso utilizado pela empresa  $i$  no local  $j$

Objetivo

$$\max \text{ util} = 50x_{11} + 20x_{12} + 50x_{13} + 30x_{22} + 55x_{23} + 60x_{31} + 50x_{33};$$

restrições:

$$x_{11} + x_{12} + x_{13} + x_{1A} = 420;$$

$$x_{21} + x_{22} + x_{23} + x_{2A} = 350;$$

$$x_{31} + x_{32} + x_{33} + x_{3A} = 280;$$

$$x_{11} + x_{31} - 100 = 0;$$

$$x_{12} + x_{22} - 200 = 0;$$

$$x_{13} + x_{23} + x_{33} - 300 = 0;$$

$$x_{1A} + x_{2A} + x_{3A} - 730 = 0;$$

fluxos:  $x_{11} \leq 70; x_{12} \leq 140; x_{13} \leq 210$

$x_{22} \leq 140; x_{23} \leq 210;$

$x_{31} \leq 70; x_{33} \leq 210;$

$x_{ij} \geq 0;$