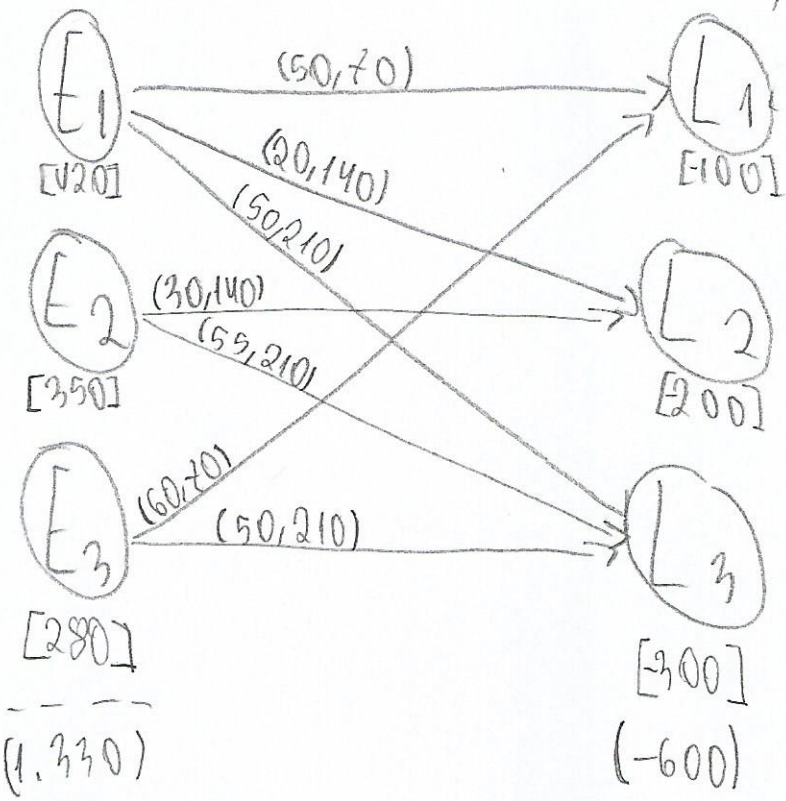
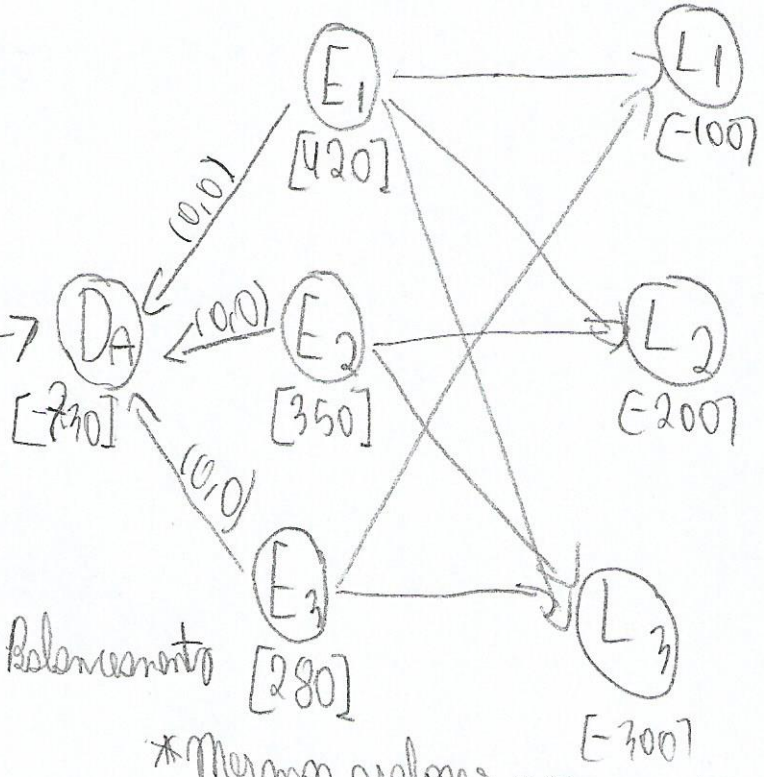
Marcos Geraldo Braga Emiliano 19.1.4012

Rede: E_i = Empresa i, L_i = Local i, (custo, fluxo máximo)





*Mesmos valores nos arcos.

*A = demanda artificial

Modelo

x_{ij} => área utilizada pela empresa i no local j

Objetivo

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

restrições:

$x_{11} + x_{12} + x_{13} + x_{1A} = 420$;
$x_{21} + x_{22} + x_{23} + x_{2A} = 350$; } oferta

fluxo: $x_{11} \leq 70$; $x_{12} \leq 140$; $x_{13} \leq 210$;
$x_{22} \leq 140$; $x_{23} \leq 210$;
$x_{31} \leq 70$; $x_{33} \leq 210$;

$\forall x_{ij}, x \geq 0$;

demanda

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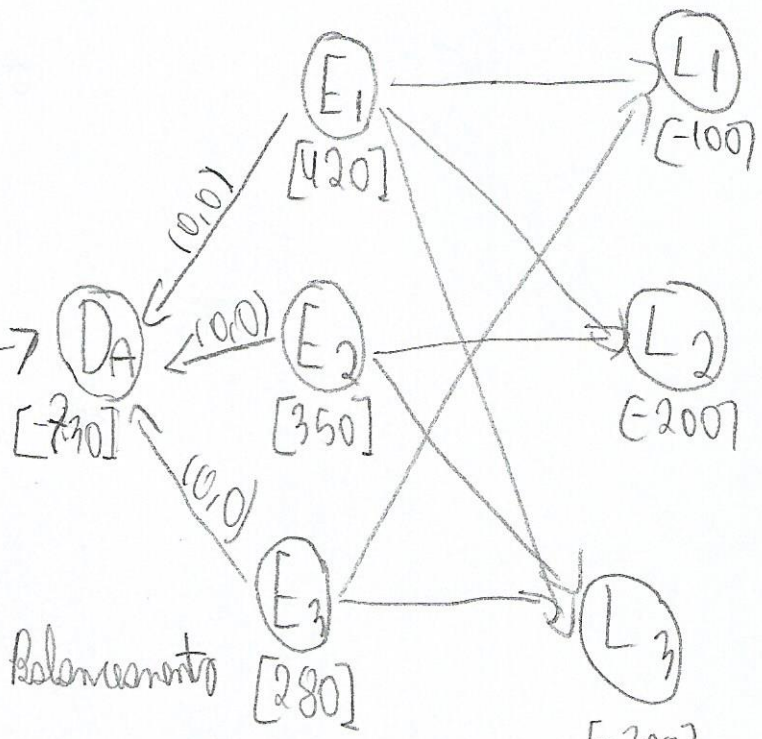
Rede: E_i = Empresa i, L_i = Local i, (roteiro, fluxo máximo)



*Mesmos valores nos arcos

*A = demanda artificial

Modelo

x_{ij} => área utilizada pela empresa i no local j

Objetivo

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

restrições:

$x_{11} + x_{12} + x_{13} + x_{1A}^* = 420$;
$x_{21} + x_{22} + x_{23} + x_{2A}^* = 350$;
$x_{31} + x_{32} + x_{33} + x_{3A}^* = 280$;
} oferta

$x_{11} + x_{31} - 100 = 0$;
$x_{12} + x_{22} - 200 = 0$;
$x_{13} + x_{23} + x_{33} - 300 = 0$;
$x_{1A} + x_{2A} + x_{3A} - 730 = 0$;
} demanda

fluxo: $x_{11} \leq 70$; $x_{12} \leq 140$; $x_{13} \leq 210$
$x_{22} \leq 140$; $x_{23} \leq 210$;
$x_{31} \leq 70$; $x_{33} \leq 210$;

$\forall x_{ij}, x \geq 0$;