$X(p, \tilde{I})$ HG0 EN $(p, \check{I})$

$Y(p)$ HG0 EN p

ECONOMIA COMPETITIVA DE PROPIEDAD PRIVADA

$\succsim_i \quad i \in I = \{1, 2, \dots, \underbrace{\#(I)}_{I}\} \qquad Y_j \quad j \in J$

PROPIEDAD "j" EN MANOS DE "i" : $\theta_{ij} \in [0,1]$

$\sum_i \theta_{ij} = 1$

$$\text{MAX } p \cdot y - c(y)$$

$$p(y)$$

$$\boxed{\succsim_i \quad \theta_{ij} \quad \gamma_i \in \mathbb{R}^n}$$

$$\boxed{\sum_j \theta_{ij} y_j(p)\, p + \gamma_i p = \tilde{I}}$$

$$y_j \in \mathcal{Y}_j$$

$$\sum_i x_i \left(p,\ p\left(\sum_j \theta_{ij} y_j(p) + \gamma_i\right)\right)$$ DEMANDA

$$\sum_j y_j(p) + \sum_i \gamma_i$$ OFERTA

SE CONSTITUYE POR

AGENTES: $\succsim_i$, θ_{ij}, γ_i $i \in I$

FIRMAS: Y_j $j \in J$

EQUILIBRIO COMPETITIVO:

$p, \{x_i^*\}, \{y_j^*\}$ /

1 $\forall i \in I$: $x_i^* \succsim_i x_i$ $\quad x_i^* p \leq p\left(\sum_j \theta_{ij} y_j(p) + \gamma_i\right)$

$\forall x_i$: $x_i p \leq p\left(\sum_j \theta_{ij} y_j(p) + \gamma_i\right)$

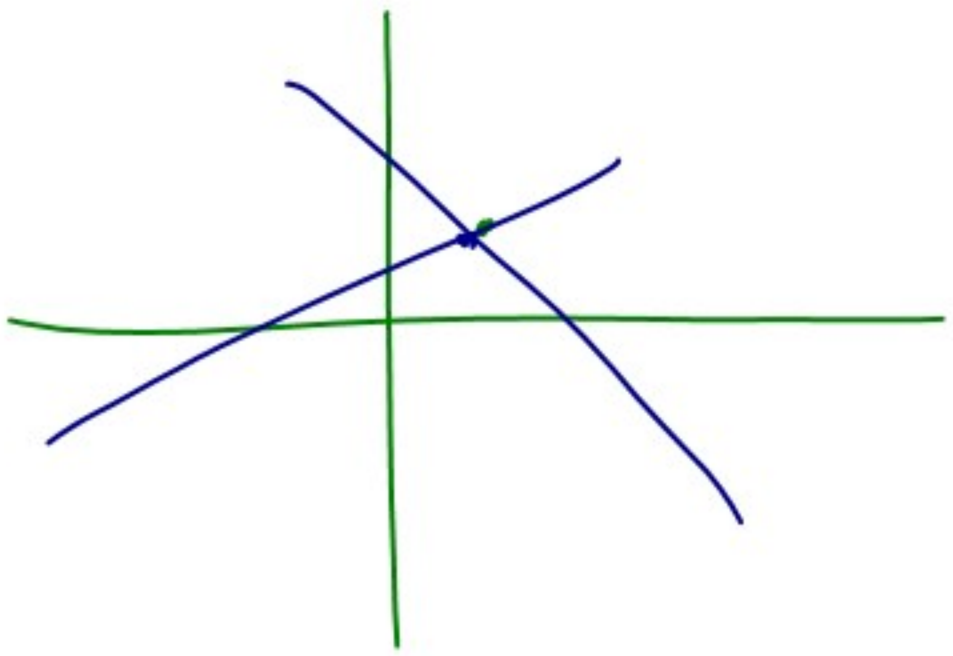
② $y_j^* : \quad p\, y_j^* \geq p\, y_j \quad \forall\, y_j \in \mathcal{Y}_j$

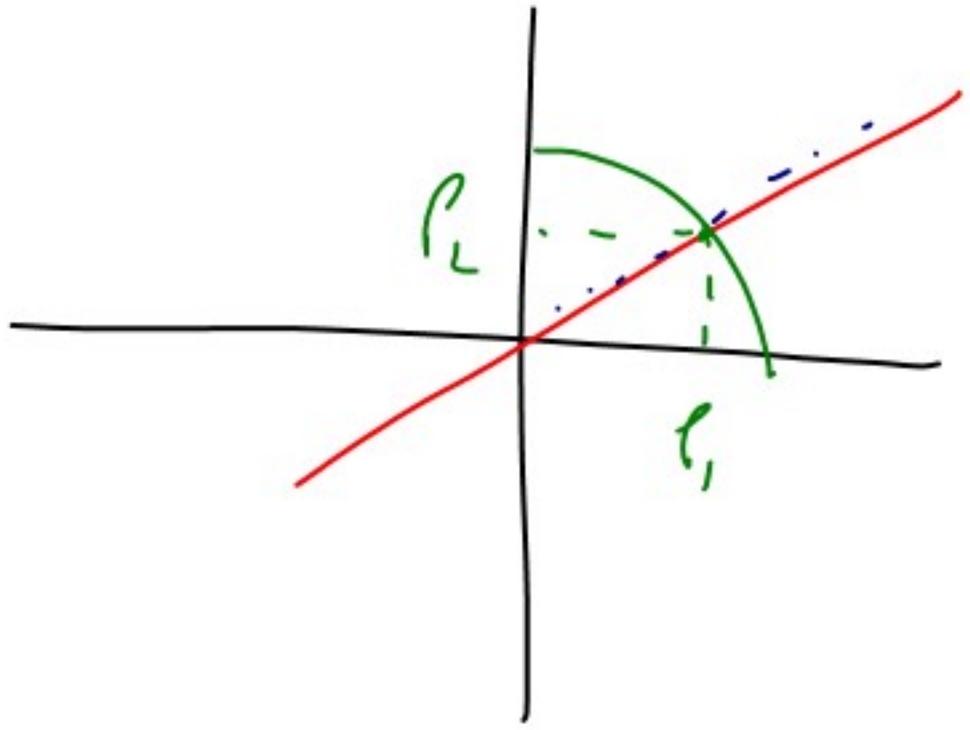
③ $\sum_j y_j^* + \sum_i \gamma_i = \sum_i x_i^*$

$$\sum_j \underbrace{y_j(\alpha p)} + \sum_i \gamma_i = \sum_i \underbrace{x_i\Big(\alpha p, \alpha p\Big(\sum_j \theta_{ij} \underbrace{y_j(\alpha p)} + \gamma_i\Big)\Big)}$$

$\alpha > 0$

$$\begin{pmatrix}1\\1\\1\end{pmatrix} \quad \begin{pmatrix}2\\2\\2\end{pmatrix} \quad \begin{pmatrix}\sqrt{2}\\\sqrt{2}\\\sqrt{2}\end{pmatrix}$$





ρ_2
ρ_1

"LEY DE WALRAS"

$$p X_i = \tilde{I} \qquad \sum_{\ell} p_\ell \cdot X_{i\ell} = \tilde{I}$$

$$p\left[\sum_j y_j(p) + \sum_i \gamma_i\right] = \left[\sum_i X_i\Big(p, \underbrace{p\big(\sum_j \theta_{ij} y_j(p) + \gamma_i\big)}\Big)\right] p$$

$$\sum_{\ell=1}^{n} p_\ell \left(\sum_j y_{j\ell}(p) + \sum_i \gamma_{i\ell}\right) = \sum_{\ell=1}^{n} \sum_i p_\ell X_{i\ell}(\ldots) = \sum_i \overbrace{\sum_\ell p_\ell X_{i\ell}(\ldots)}^{\tilde{I}_i}$$

$$\to \sum_i \tilde{I}_i = \sum_i p\left(\sum_j \theta_{ij} y_j(p) + \gamma_i\right)$$

$$= \sum_\ell \sum_i p_\ell \left(\sum_j \theta_{ij} y_{j\ell} + \gamma_{i\ell}\right)$$

$$\sum_\ell p_\ell \left(\sum_j y_{j\ell} + \sum_i \gamma_{i\ell}\right) = \sum_\ell p_\ell \left(\sum_j y_{j\ell} \overbrace{\boxed{\sum_i \theta_{ij}}}^{1} + \sum_i \gamma_{i\ell}\right)$$

$$\sum_{\ell=1}^{m} \sum_{i} p_\ell X_{i\ell} = \sum_{\ell} p_\ell \left(\sum_{j} y_{j\ell} + \sum_{i} \gamma_{i\ell} \right)$$

$$\sum_{\ell=1}^{m-1} p_\ell \underbrace{\left(\sum_{i} X_{i\ell} - \sum_{j} y_{j\ell} - \sum_{i} \gamma_{i\ell} \right)}_{0} = -p_m \underbrace{\left(\sum_{i} X_{im} - \sum_{j} y_{jm} - \sum_{i} \gamma_{im} \right)}$$