$$\cos \beta \rightarrow 2$$
  $li = \alpha + \beta \alpha i$ ;  $\alpha, \beta > 0$ ;  $i = 1, 2, ..., n$ 

eqm. 
$$\rightarrow$$
 (3)  $\infty := LC_1 + i = 1, 2, ..., m$ 

Jull emplt 
$$\rightarrow \emptyset$$
  $L = \sum_{i=1}^{n} Ri = \sum_{i=1}^{n} (\alpha + \beta x_i)$ 

[A] Utility maximization problem

Max. 
$$U = \sum_{i=1}^{n} C_i^0$$

$$L = \sum_{i=1}^{n} c_i + \lambda \left[ I - \sum_{i=1}^{n} p_i c_i \right]$$

Foc: 
$$\frac{\partial L}{\partial c_i} = 0 = mOc_i^{0-1} - xp_i n$$

$$\Rightarrow p_i = \lambda^{-1} \circ c_i \circ -1 = \lambda^{-1} \circ \left(\frac{\chi_i}{L}\right)^{\theta-1}$$

[3] Calculating & (elasticity of del. as faced by each producer)

$$\frac{dp}{dx} = x^{-1} \partial L^{1-\theta} (0-1) x^{-2}$$

$$\frac{dx}{2} = x^{-1} O L^{1-0} x^{-0-2}$$

$$= \frac{1}{2} = \frac{$$

[e] MR = MC condition

$$Ti = pixi - (x+pxi)w + i=1,2,...,n$$

$$\alpha$$
,  $(p_i - \beta \omega) x_i = \Delta \omega$ 

$$\alpha_i = \frac{\Delta \omega}{p_i - \beta \omega} = \frac{\Delta}{p_i / \omega - \beta}$$

From [] we have 
$$p = 0^{-1}\beta\omega$$

or,  $p/\omega = 0^{-1}\beta$ 

$$L = \sum_{i=1}^{m} (\alpha + \beta \alpha i) = m (\alpha + \beta \alpha i)$$

or, 
$$n = \frac{L}{\alpha + \beta \alpha 1}$$

$$= \frac{L}{\alpha + \beta \frac{0}{1-0}} = \frac{L}{\alpha (1+\frac{0}{1-0})}$$

$$= \frac{L}{\alpha + \beta \frac{0}{1-0}} = \frac{L}{\alpha}$$

$$\hat{n} = \frac{L(1-\theta)}{\infty}$$
;  $\hat{n}^* = \frac{L^*(1-\theta)}{\infty}$