Cone factor: labor No intermediate goods. - N locations. Vij = Cij Aj Vij Cij = (I SMk Cikj (w) oda) o-1. (2) Pj = (I S Mk (pk(a) try) Tola) Fo. - Think of Knigman. No portits.

It is employed.

It is is employed. KEN So Pre(w) try Cikj (a) du ≤ Izj $C_{i,k,j}(\omega) = \left(\frac{P_{i}(\omega) t_{k,j}}{P_{i}}\right)^{T} \left(\frac{J_{i,j}}{P_{i,j}}\right)$ BCy=Iy Pick up one (intinitesimal) time w in location j. Xj: expenditure in location j. Cky (a) = (P(a) trj) (X). Jr(w) = I trej Cky (w). Ry (a): the revenue of firm a in location j $R_{j}(\alpha) = \int_{K \in \mathcal{M}} P_{kj}(\alpha) \cdot \hat{J}_{j}(\alpha)$ (lo). = Pj(a) [tjk Gk(a).

1

$$F_{j}(\omega) = \frac{1}{2} \sum_{k=1}^{k} \frac{p_{k}^{-1}}{k} \times_{k} \frac{1}{2} \int_{k}^{\infty} (\omega) \cdot (4 \cdot 0)$$

$$F_{j}(\omega) = \frac{1}{2} P_{j}^{-1} \times_{k} \frac{1}{2} \int_{k}^{\infty} \frac{1}{2} \int_{k$$

Want:
$$w_j(l)$$
 as a function.
 $f(x) \in rewrite$.
 $-xf'(x) = 2f(x) - C \cdot x^{-\frac{1}{\sigma}}$.
 $C = \Phi_j z_j^{-\frac{1}{\sigma}} \left(\frac{\sigma-1}{\sigma}\right)$.

Or
$$-xy' = 2y - C \cdot x^{-\frac{1}{2}}.$$

$$xy' = -2y + C \cdot x^{-\frac{1}{2}}.$$

$$x\frac{dy}{dx} = -2y + C \cdot x^{-\frac{1}{2}}.$$

$$\frac{dy}{dx} = -2y + C \cdot x^{-\frac{1}{2}}.$$

$$x dy = (-2y + C \cdot x^{-1}) dx$$

 $(2y + Cx^{-1}) dx - x dy = 0$
 $(2x^{-1}y - C) dx - x^{-1+1} dy = 0$

Since I do not know how to solve this differential eg, verity (4.2) actually satisfies (4.1).

$$\begin{aligned} & = \frac{\partial R_{1}(l)}{\partial l} - w_{1}(l) - l \cdot \frac{\partial w_{2}(l)}{\partial l} \\ & = \frac{\sigma - l}{\sigma} \cdot \frac{2}{2} \cdot \frac{1}{\sigma} \cdot \frac{1}{\sigma} \cdot \frac{1}{\sigma} \cdot \frac{\partial w_{2}(l)}{\partial l} - l \cdot \left(\frac{\sigma - l}{2\sigma - l}\right) \cdot \frac{\partial R_{2}(l)}{\partial l} \cdot l - \frac{R_{2}(l)}{\partial l} \cdot \frac{1}{\sigma} \cdot \frac$$

$$= \frac{(\sigma-1)(2\sigma-1)}{\sigma(2\sigma-1)} \cdot \frac{2}{\sigma(2\sigma-1)} \cdot$$

= o (o-1) (20-1) - o of dy = o++0-20+1 - (0-1) (20-1) - 1 - 1 - 1. = [o(o-1) - (o-1)] (20-1) - Dody - 20-1-1. = (0-0+1) (0-1) (20-1) - \$ \$ dy | - 3,00 | - \$. Sub (6.2) into (6.0): $W_{j}(\omega) = \frac{\sigma}{2\sigma-1} \frac{2j\sigma}{2j\sigma-1} \frac{\sigma}{\sigma} \cdot \left[\frac{\sigma-1}{2\sigma-1} \right]^{\sigma} \cdot \left[\frac{\sigma-1}{2\sigma-1} \right]^{\sigma}$ = 1 2 -1 2 -1 -1 -1 -1 dy 2 -5 = dy. Hy = Lyxytx. (or Hy = my Lyxytx). $\theta_{j} = \frac{1}{L_{j}}$ - the probability that a worker find a job: ig = Hd' = Ly-1 y 1-7 = (1) 1-7 = 0,1-7. - the probability that a firm find, a worker: $\phi_j = \frac{H_j}{V_j} = L_j V_j - \gamma = \left(\frac{V_k}{L_j}\right)^{-\gamma} = \theta_j^{-\gamma}.$ - # the cost of porting a vacancy. Vy: vacancies per firm. & d= 3 vo -- (7.1). Vz = My Vz Hz = My Lz.

Di Vz = endogenous

endogenous.

$$\frac{H_{s}}{V_{s}} = \frac{1}{\sqrt{3}} = 0^{-\frac{1}{3}} \cdot \cdots \cdot (F \cdot 1)$$

$$T_{g}(\omega) = (\sigma - 1)^{-1}(2\sigma - 1)^{-1} \cdot (\frac{1}{2} + \frac{1}{2} + \frac$$

top
$$G_{ij}(\omega) = g_{ij}(\omega)$$

= $t_{ij} \cdot g_{ij}(\omega) - g_{ij} - 1 \times g_{ij}$

= $t_{ij} \cdot (t_{ij} g_{ij}(\omega))^{-1} g_{ij} - 1 \times g_{ij}$

= $t_{ij} \cdot (t_{ij} g_{ij}(\omega))^{-1} g_{ij} - 1 \times g_{ij}$

Garhive (9.6) & (10.2):

 $t_{ij} \leftarrow g_{ij} \times g_{ij} \times g_{ij} \times g_{ij} = t_{ij} \in g_{ij} \times g$

 $X_j = J_j \theta_j L_j$ Pj = [(0-1) (20-1) + 1 = 30+1 = 0 = 0 = 1 tky Lk. D = (Ity k PK-1Xk) } = = = = = X1c = 2 tzk 3k Aklk

[(0-1) (20-1) 5+1 5-0 3 5+1 2-0 0 x0+1 tn.k Ln. An equilibrium is (G, Xj, B, J) s.t. ... (11.1). $X_{j} = 3_{j}\theta_{j}L_{j}$ -- (11.2). \$ = (Ztk) PE XE) -- (11.4) Nominal wages & employment rates are wy = 3, 0, 2 -- (# 11.5) ej = g/2 -- (11.6) Parameters: o, x, Zi, Zj, ty, txy, Lk. (11.1)~(11.4) is a system of N equations w/ Nanknowns.

 $\frac{\partial_{j}}{\partial z} = (\sigma - 1)^{\frac{1}{N}} (2\sigma - 1)^{\frac{1}{N}} \int_{0}^{1} \frac{1}{\sqrt{1+\sigma}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}$

