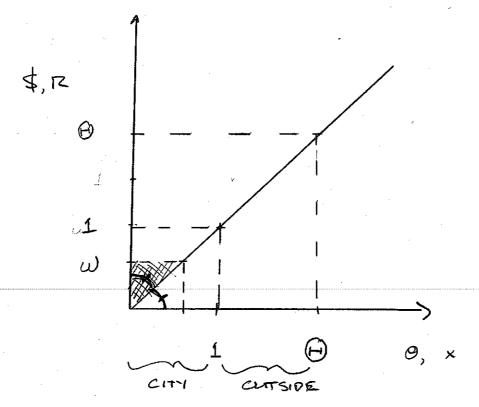
DETECT NOTE THAT AN AGENT WITH A LOW O WILL ALWAYS CUTY-TSIO AN AGENT WITH A HIGH OF FOR A SPORT IN THE

THEI, EQUILIBRIUM LOUIS LIVE THS:



SUPPOSE @ 31 >W AS DRAWN, THEN IF R=0 A10

OSW LIVE IN THE CATY AND BOW LIVE CATSIDE, THAT NO ONE WANTS TO MUE, AND NO LANDLEND CAN INCREASE THEIR PLET, THO IS A FREE-MOBILITY EQUILIBRIUM WITH THE CITY PARRY OCCUPIED. AGGREGAR LAND REAT IS ZENO AND CONSUMERS' SURRUS IS THE HATCHED REGION,

(W-0) do

THE DEW >1 THEN THE CITY IS FULLY OCCUPIED BY

901050513. THE MARCHIAN RESIDENT IS 0=1. PLENT ARRESTS

SU THAT SHE IS INDIFFERENT PSEQUEEN THE CAT AND THE CATTON OF APPENDING CAN'T RAISE THEIR REALT.

HAGENESATE LAND REALT IS S(W-1)dx = W-1 AND

AGGREGATE CONSMERS SURPLUS IS S((W-1)-0)d0.

IN AN ENURAIMENT WHERE AGENTS HAVE HETEROGENOUS CONTSIDE OPTIONS OR WHENE THEIR TRASTE FOR A LOCATION, WE NIESO TO WARRY ABOUT SURPCUS FOR INFRA-MARGINIA AGENTS WHEN WE CARCULAGE WELFARE.

AND THIS ISSUE FOR NOT ARISE.

(2) For LINEAR CITY W/O SUBLAY, 310 PENT SULES

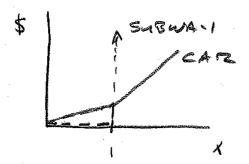
MAX
$$w-4x-r$$

$$(w-4x-r)^{\beta} = \overline{u}$$

$$= w-4x-r = \overline{u}^{\beta}$$

$$= R_{\alpha} = w-4x-\overline{u}^{\beta}$$

FOR LINEAR CITY WITH SUBWAYS, COMMUTE COSTS LOUIC LIVER THIS



AND FOR ORIVERS

\[\langle \int \alpha - \frac{1}{2} \times \times \times \langle \langle \langle \frac{1}{2} - \xi (\alpha - 1) \times > 1 \]

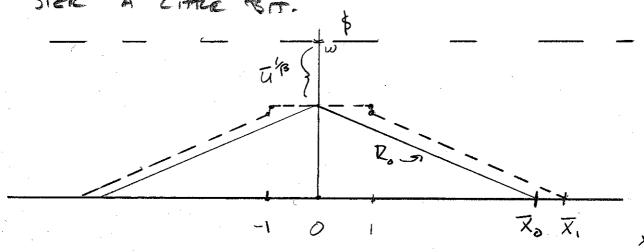
THE UPPER ENLEWRE, MAX $\{12^5, 12^d\}$, is $R_i(x) = \begin{cases} \omega - \overline{u}^{i_0} & x \leq 1 \\ \omega - \overline{u}^{i_0} - t_0 - t(x-1) & x > 1 \end{cases}$

HOTE THAT IZ, IS DISCOMMUNAS AT 1.

EQUILIBRIUM CITI SIZE W/O SUBLA-15 SATISFIES

EQUILIBRIUM CITY SIZE WHIN SUBWAY IS DEFENDING 934 MARGNA DRIVER

SU X = X, +1/2 , SU SUBJUANS INICIDEASE CAM



3) TO MAKE THIS EAST, ASSUME ONE WAS COMMUTING.
WHEN EVENYOUR DRIVES, THE NUMBER OF CANS

PAST X IS THE TOTAL TOTAL TOTAL

$$D(x) = \begin{cases} \overline{X}_0 - x & x \in [0, \overline{X}_0] \\ -[\overline{X}_0 - x] & x \in [0, -\overline{X}_0] \end{cases}$$

$$= C \cdot x \in [0, \overline{X}_0]$$

$$= C \cdot x \in [0, \overline{X}_0]$$

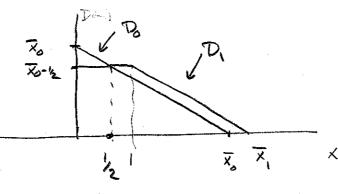
WITH SUBJURYS, NOTE OF THE COMMUNES IN

$$\nabla_{i}(x) = \begin{cases}
(\overline{X}_{i}-1) & x \in [-1, 1] \\
(\overline{X}_{i}-1)-x & x \ge 1
\end{cases}$$

$$\left(-\left(\overline{X}_{i}+1\right)-x\right) & x < -1$$

$$= LSE$$

OR



WHENR

 $\nabla_{0}(x) = \nabla_{1}(x)$ when $\nabla_{0} - x = \nabla_{0} - 1$ $= \sum_{i=1}^{n} \nabla_{0} - x = \sum_{i=1}^{n} x_{i} + \sum_{i=1}^{n} x_{i}$

WITHOUT SUBWAY, TETAL TORIUNG IN CENTRA CITY

i.e. SUBVAI CATCHMENT IS

$$2 \int_{0}^{\infty} D_{0}(x) dx = 2 \int_{0}^{\infty} \overline{x}_{0} - x dx = 2 \left[\overline{x}_{0} x - \frac{1}{2} x^{2} \right]_{0}^{\infty}$$

$$= 2 \left[\overline{x}_{0} - \frac{1}{2} \right]$$

TETA DRIVING IN THE WHER CITY IS

$$2\int_{0}^{\overline{x}_{0}} R_{0} \omega_{1} dx = 2\int_{0}^{\overline{x}_{0}} = \overline{\chi}_{0}^{2}$$

WITH SUBLAY, TOTAL DRIVING IN THE CENTRA CITY IS,

25 DIWINDEX = 2[70-12]

SO AS LONG AS TO 15 BIG ENGUGHT, TOTAL ORIUNG INCREASES WITH SUBJECT BUT DRIVING IN THE CENTRAL RANT DECREASES. AS CONG AS POLLUTTAINS LOCAL, THIS RATIONALIZES TURNELLY ARTS ZONZ.

WITH FREE MUBICITY

$$[h(p)]^{\alpha} [z(p)] = U$$

$$P(\alpha) = [(w-2x)\alpha^{\alpha}(1-\alpha)^{1-\alpha}]^{\alpha}$$

[C]
$$\frac{d}{dx} e(P, |y|) = \frac{\partial e}{\partial P} \cdot \frac{\partial P}{\partial x} = -\tau$$

Since $\frac{d}{dx} (w - \tau x) = -\tau$

But $\frac{\partial e}{\partial x} = h$ So $\frac{\partial P}{\partial x} = \frac{\tau}{h}$