Chapter 24 - Industry Supply

Industry Supply - Sheet Run

- To find the industry supply in the short-run,
simply same the individual supply course of

- It S:(B) = y; the rulesty supply

time; then the rulesty supply

curve is:

>> 55 we are 50 samming harrisonally.

Industry Fo'm - Short Run

-> Find where SR supply course sintered market domand course agin p as and y

- w/ this price we can go and find the produced by each firm in the market

> Note - James may produce were if profits
negative in short run- just need to cover voylable

Industry form in the LR:

3 In long-run, all fectors vousable
3 So in LR will never make negative
problis - no factors are fixed so
would exit the industry of can't
cover fixed costs

Also, m LR Jirms may enter modustry

if there are no restrictions on

entry, we say there is to the

free entry

there are restrictions to entry, we

say there are barriers to entry

> Picus enper my brofits sono

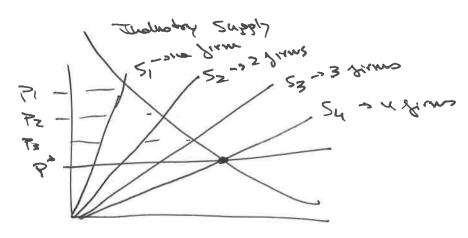
> let p' = can's > the price that equels

y' - the min of any

cost

- for a ma > cist) profits

~ for a price < ((b)) proffs



and grices P, Pr, P3 - Profits 20

as more firms enter

senting chappens until T's =0

con(y firms in preture above)

(m) y firms in preture

The Law Run Supply Curre

Think about fact that firms trap entring when profits positives once by down

So u lange # 8 Jirms (as we would have)

in competitive munded), we can approx.

In competitive munded) we can approx.

All LIR supply curve up a harrisonal

Aria at P = Min (AC)

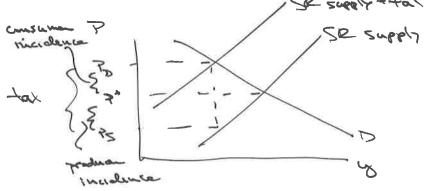
as profits zew in LR

-> Just like u/ CRS - profits seeso when ORS, but free cuting us like CRS for navled - other firms replicate production processo

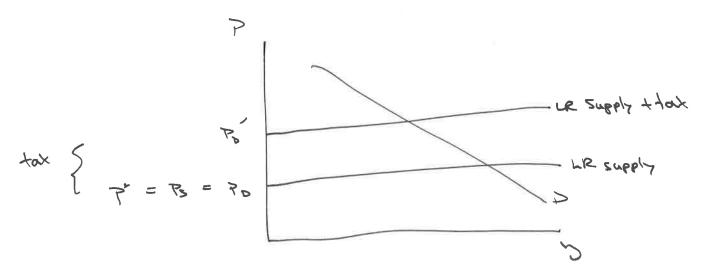
Implication of LR vs. SR - bakes

The tax?

of som before, that the least of the market burden the majority of the burden the majority of the burden



what about in LR?



-> Chesamer bears entire burden

-> b/c LR supply perfectly electric

-> in LR Jerma ent until those

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remain make zero Todler toch

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-> when entit price t

-> when entit price t

-> when entit point Po = ccos

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Probles

> Pero profits mean all factors of productions one paid their marked role of return a those spectors of the spectors included the spectanity cost

-> postive profits encourse entry

> near cuty books up factor pries and

books down output priors

-> this hoppens until profits are zero (1,0. and)

Alie hoppens until return)

This, profts provide exactly the right

Signals to moulet poulicipants

Signals to moulet poulicipants

Signals to moulet poulicipants

roles outputs greate thou

roles outputs, so encounge've

it puts, so encounge've

nere resources here in a

good thing - net

good thing - net

economic value is weeked

Profits 1 fixed fectors of production

The first food of the the fixed of there is a

So what happens to This there is a

Mixed fector of production?

Mixed fector of production?

The more free entiry - factor fixed

on more only energone can have

amount to not energone can have

amount to not energone, miles

(e. & d) take cato licenses, miles

(e. & d) take cato licenses, etc.)

- yes, is count them the yellow has accounting the the payments to these this payments accounting the this payments amount of a toxi medallow amount of a toxi medallow related to the price the

medallian can be sold for
medallian can be sold for
medallian can be sold for
these payments
earned by the fixed factor
mean to's one zero even in
fixed fectors

S There is still the threat of entry

- competition for the fixed

- consider the fixed

-

200

Economic Rent

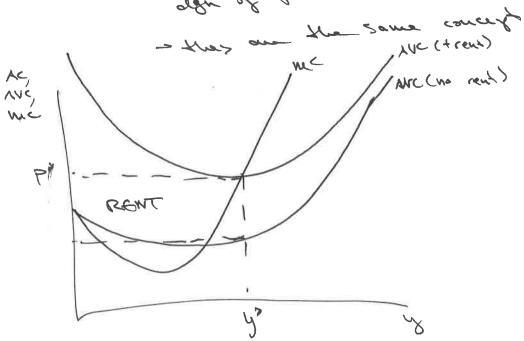
supplied supported for the payments to be seens as what is

Jactors would need to be point, in excess of their markets cost, to drive profits to zero.

P3- (15)-rent =0

=> rent = Py' - (1(y')

recall this exactly same



-> can also use just mc conve (as we did to gird PS)

12 Teroplan of rents

- > "rent seeking" -> where expend resources to try to acquire fixed factors of production -> expends expended and nathing near createdfactors are in fixed supply
 - spolitical problem often hoppens when fectors one in bixed supply due to legal rents

 restailiens

 show labbying efforts to maintain rents
 - s wasted effort can be quite large of expend by each sto size of rend could come the form may be could receive (loss

An application of Litz marked 69'm and economic tracks -> A combon took US cap and tracks

- -> Consider agreement that something should be done to reduce carbon emissions.
- There are several ways to do this.
 -) Aimit each producers emissions to

 The to of Jimes)
 - 2) Impose a tax so that eq'in emissions
 And tanged. T
 - 3) Give out parmits that allow puressions of total amount of permits allowing emissions

9

-> why us (1) a bad idea? -> byc the cost of reducing emissions pro some gierno mos po vors you de orate of lone way be very low -> so why would you want them to reduce by some amount? - Pal can't good then just make some e. y. Solve reduce by more + other by less? sol but now good heads to know a lot more information - some min c'(x') + (5(x)) of which really isn't ever knowed Sil. XIt 2=T 4 sol'n : = gcz(Kz) = equal mcs 3 c (x1) 1642 Jerno an (5/ + (3) cearbon tax -> Det X, X2 be conton emissions Jimo I and Z CARA LA LEGITICA Emissians ps

(2) Coulon tax

Jun propon

min c(x1) + + (x1-x1)

take per will emit

Foc. 2(x1) - +=0

=> += 9 d(x')

Firm 2 problem:

MIN (5/2)++(X2-X2)

a 9 c2 (x3) = +

3xx = 3 = 3c(xx)

mc, =+ = mcz

Laugher et cheen lang tivog mon

tax + to sext and and decentralized sol'h sals MC's equel

to lux

+ gat sptimed sulcome wo gor's meeting to know so much

(3) cap and trade

omit (05 agricus Municamas)

or persons allowed to be bought and sold

-> borneys Eggs of leve 6.

- Rem / beeppen .

min $c(x_i) + p(\overline{X}_i - X_i)$

755: => MG(x) = 8

-> same for Jirm 2

=> mc, (x) = p = me, (x2)

Now gov's can just adjust

price P (e-of by auction of

permits domanded = T

permits domanded = T

Junefishs to know from cost

-s year much like tak

⇒ could also give permits away tollow trade → trade crubes price for permits and again get ma(x,) = P = MC2(x2)