- Humans tend to manumize wedness with limited money
- Thility of a product changes with time & place
- Every product has a point of saturation after which its
- people who quantity, utility in terms of money etc. are called condinalistic. measured in quantitative terms.

according to 2nd 81- 2nd 81- 3rd 51- 4th 11- Marginality 4 4rd 11-  $Mu_{kt} = 10-0 = 10$  2nd 11-  $Mu_{kt} = 10-0 = 10$  2nd 11-  $Mu_{kt} = 10-0 = 10$  2nd 11- 2nd 11- 3rd 11-

ATV change in to tal ulility.

AC change in quartity

roorginal whiling I the benifit gained

ality

cr a product or service

diminishing Moland if a person increase
the consumption of a single product
beeping other products quantity constthen the utility derived from
that product decreases on increase
in quantity of that product.

from consuming each additioned wrist

+ assumptions of a cardinalist + , ) rational human beings.

ii) marginality of money remains constant.

Price

consciences supplies (ready to give or more money than MRP (races))

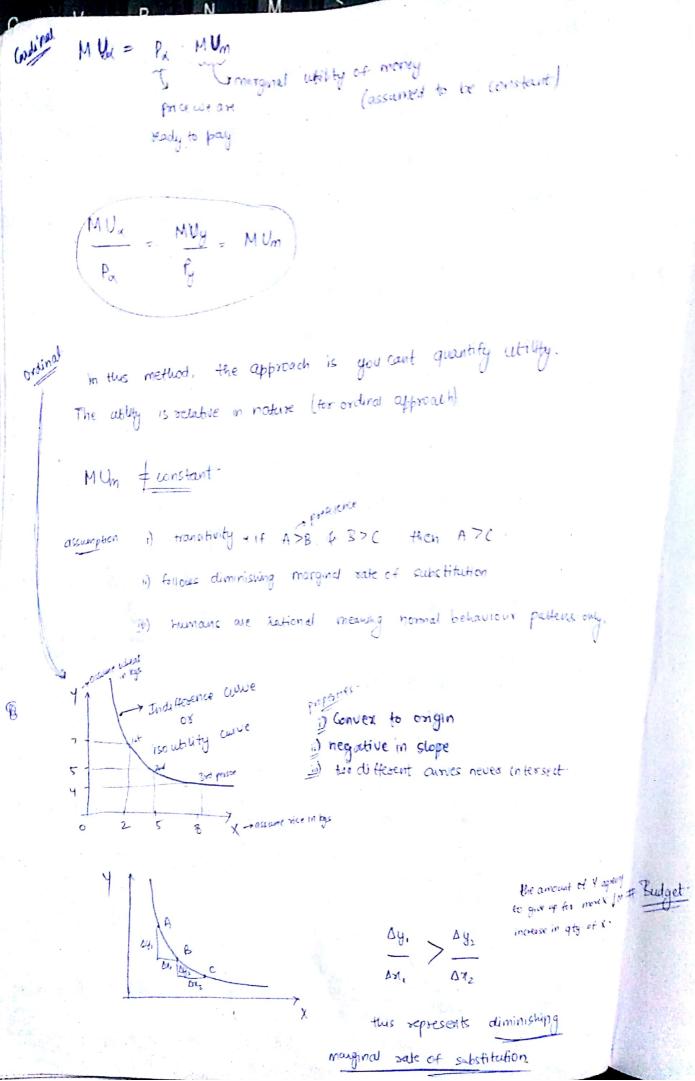
MRP

(we can see that if price will decrease, consumer surplus

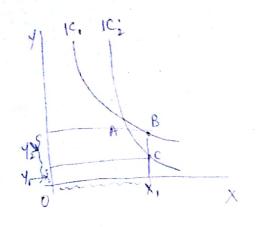
No- of will increase)

People

law of equimarginal utility of As far as the Utility is different Conterns of Money, we can take a decision but as soon as marginality bacmes equal we stop and take a Call.



(learn the previous pat online, it can come in exams)

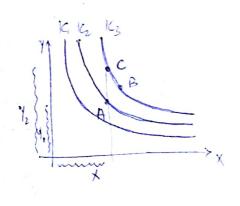


wrt X. we obtain 27s
when Y is more, Utility more.
wellness is rause in B.

Utility (B) > Utility ( ).

therefore according to transitivity, this is not possible.

Hence the graphs cant intersect.



for A&C, Utility sound
for A&C, Utility(c) > Utility(A)

hence utility (B) > Utility (A)

## I higher the indifference curve, higher the whity

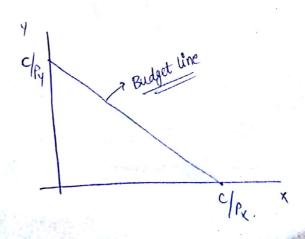
then why is this example not like the previous where we proved intersection is not possible)

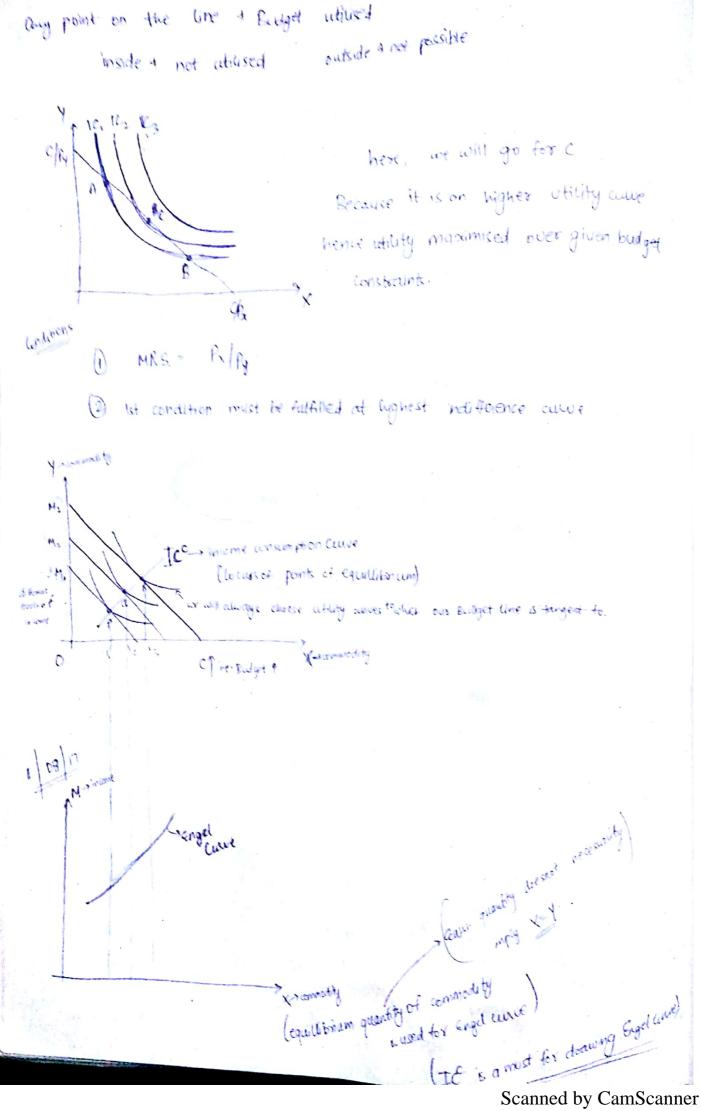
$$C = P_{X} \times + P_{X}Y$$

$$X = \frac{C}{P_{X}} - \frac{P_{Y} \cdot Y}{P_{X}}$$

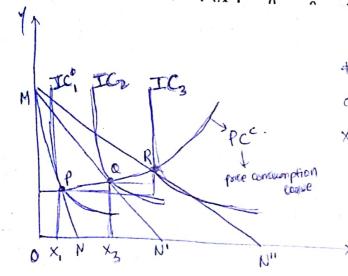
$$Y = \frac{C}{P_{Y}} - \frac{P_{X} \cdot Y}{P_{Y}}$$

$$Y = \frac{C}{P_{Y}} - \frac{P_{X} \cdot Y}{P_{Y}}$$





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movement from N to N' of achange in price of X (decreased price) due to decreased price, the amount of X bought will increase.

price change is an outrome of income effect and substitution

# things to look out blow PC and IC the am

the amount of Y'is increasing wat decrease in price of X and therefore increases in consumption of X but it is way more horizontal than IC' at the beginning.

the amount of Y increasing cost X is

#### Income effect

The feeling of increasing income with decrease in expenditure due to change in price of commodity in market.

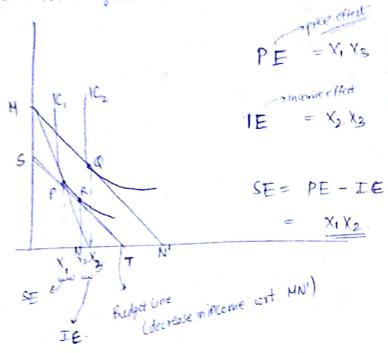
g sol- onion becomes 251- 1 we have extra 251-

#### Substitution effect

Substituting one kind of product with another due to varying quality or it.

M. tormer then the going for cheaper product or so on.

Plot of inferior goods v/s essential goods.



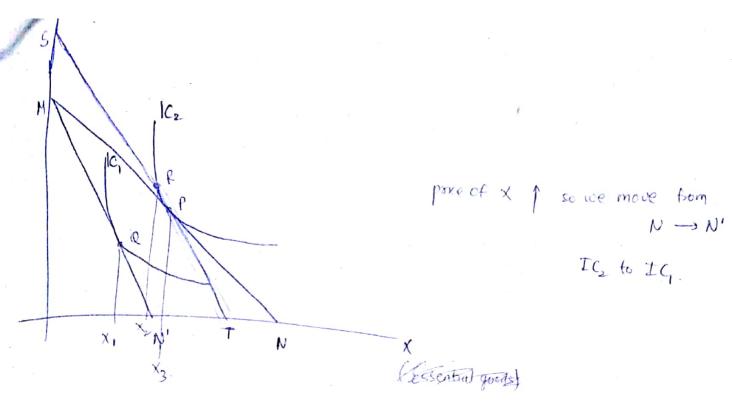
Rapoint of tangency of ST with IC,

we move from Q to R. due to delocase in income

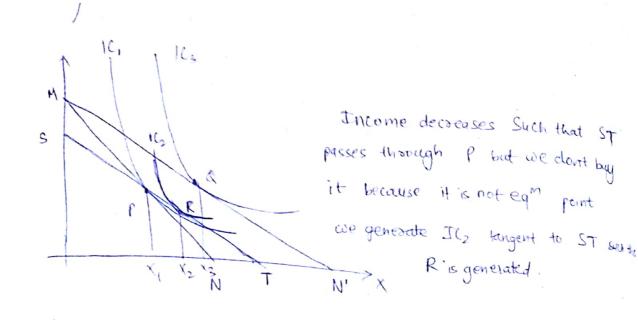
Price change is Combo of IE and SE.

In Hickman approach, to determine IE, SE, we will adjust income of lossumes on such a way that he can attain the OG level of Satisfaction in eq. 1.

In case of inferior goods. the substitution effect is negative.

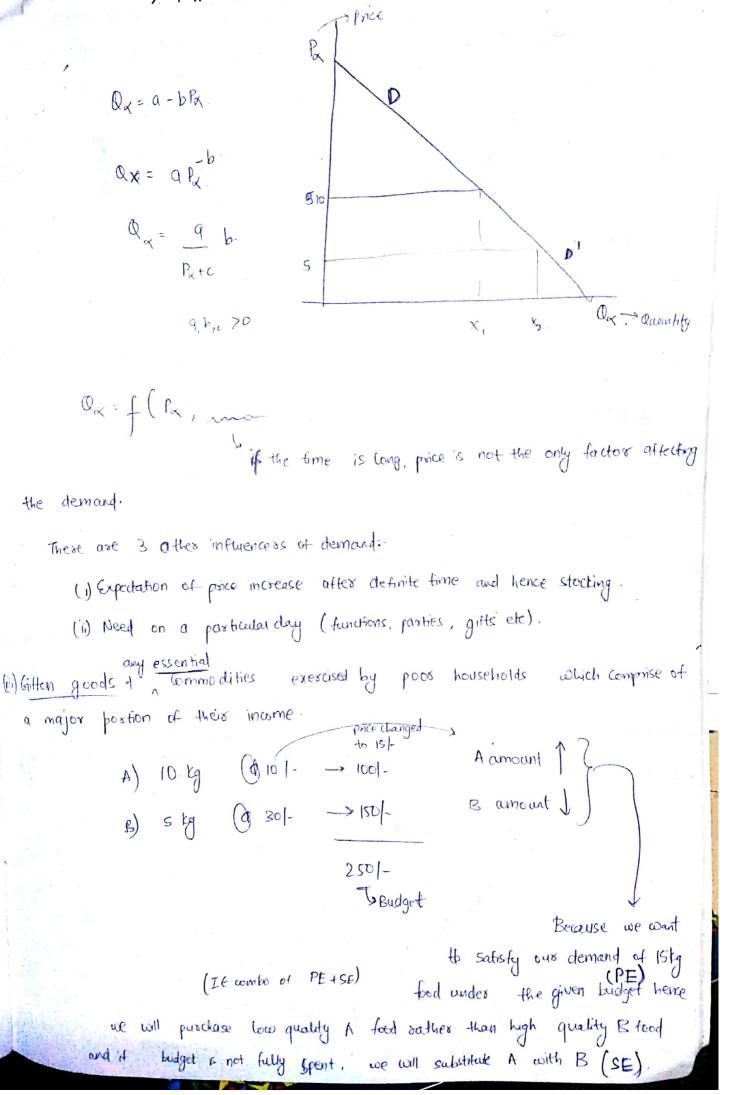


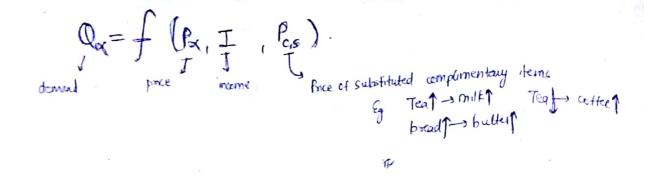
If income incoeques, we move from IC, to IC2 again to have most X.



PE=
$$X_1 X_3$$
  
 $I = X_2 X_3$   
SE= $X_1 X_2$ 

demand is the desire for purchasing product backed by purchasing power and the willingness to pay for it.





- Band Wagon ->

if an item is sare, u

punchase it for social status?

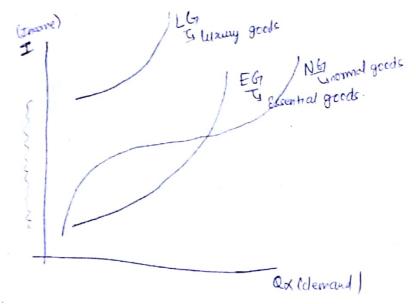
demand?

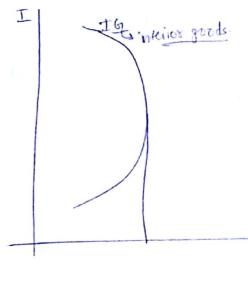
Snob

If an item is common, y stop

using it because of it losing the rax factor.

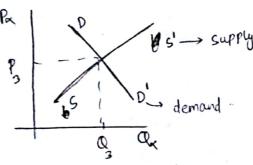
demand.





I New Day

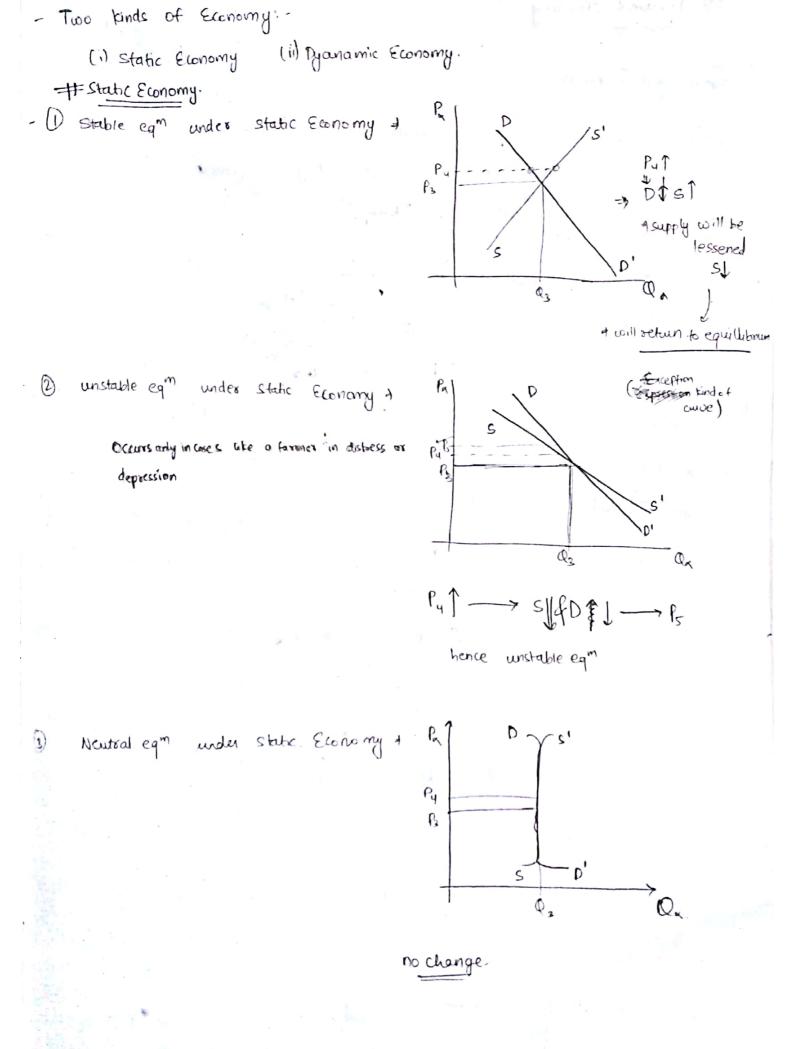
- If All other things are at certain level, if price? -> Quantity? and if I then I



here for equipment Price

this point is of market equalli battum

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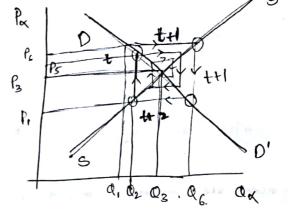
# Dynamic Economy.

## Gob Web Theorem

Supply is a lag function of price. whereas demand is not.

14. Today's price will influence next day's supply. Whereast in case of change instantly there is not much change (Treatly)

(1) stable eqm under dynamic



PG 7 time=t, D]

(next day) > ST (due to hike in price)

| Slope (\$) | > | Slope(0) |

at time ++1 Q6 = S

Q, = D

 $S>D \longrightarrow P$ 

+ Price will beach Pr

7

 $Q_6 = D$  ie.  $D\uparrow$ .

 $S=Q_6$   $D=Q_6$ 

+ everything sad out.

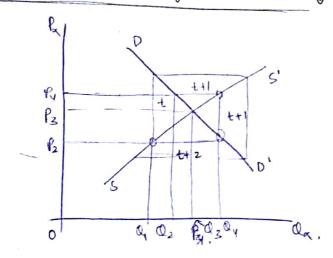
at time ++2

 $S \longrightarrow \mathbb{Q}_2$  as Pl the previous day  $p \uparrow \quad \text{on this day} \implies f_5 > f_3.$ 

S as the previous day price increased to 135

> following this trend, we can seek that we are slowly converging towards origin be equilibrium position.

# 2 Unstable equ under dyanamic Rommy



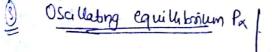
t→ Po 1 to Py → D l to Qz due to P1

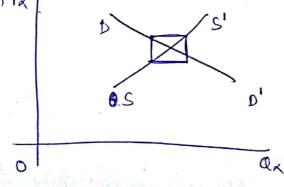
t+1 → S1 to Qy due to P1 to Py

at the same fine P l due to suspub

1 D1 to Qy due to Pl.

t+2 → S l to Q, due to Pl.





| Slope ( D) | = | Slope (S) |

+ equilibrium

# Elasticity

-> elasticity of demand supply wat price of change in demand or supply due to change in price.

1. Change in Oty demanded

1. change in price of the commodity

$$\left(\begin{array}{c} N^{sc} \text{clasticity} \right) = \frac{\Delta Q}{Q} \div \frac{\Delta P}{P} = \frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$$

hence creates some confusion.

therefore this is the disadvantage of Arc elasticity

Eg 
$$P \rightarrow Q(e_p)$$
.

 $P \rightarrow Q(e_p)$ .

 $P \rightarrow Q(e_p)$ .

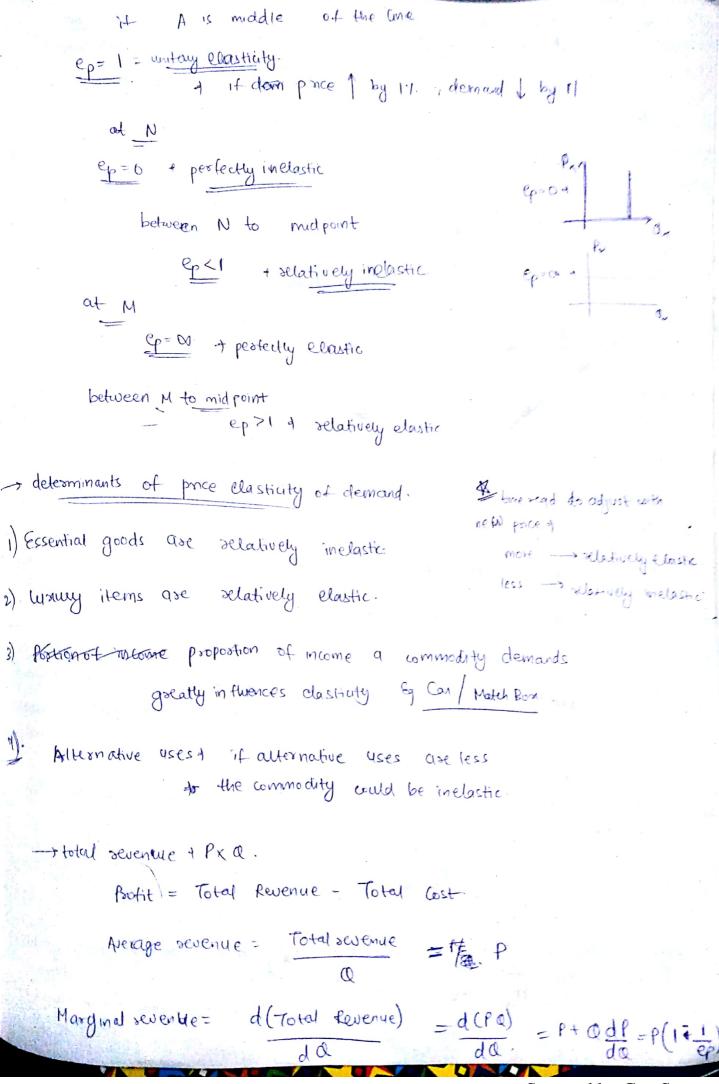
measured elasticity for small changes only hence

(subpart of age price clasticity (abterway))

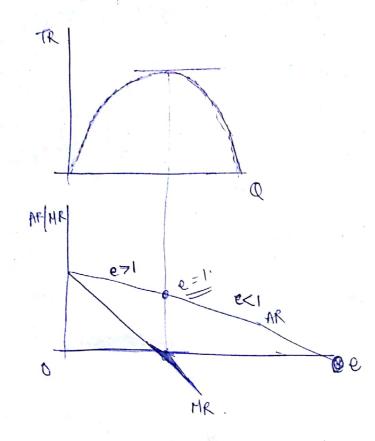
# point elasticity

a caround this point only.

this negative can be optional as dolp. will be negative mostly.



$$MR = AR \left( 1 - \frac{1}{e} \right)$$



when TR9 maseimum

#### # Income elasticity

1. change in income of consumer

$$= \frac{dQ}{dM} \cdot \frac{M}{Q}.$$

Inferior goods 4 demand decreases

G can be both positive or negative depending upon the type of goods (normal/interior)

#

I Elasticity of Supply

( price electricity of supply)

e = 1. Change in Oty supposed 1. change in proce of commodity

Pay default locationity is of passe \_ outh)

It Production and Cost

- Anything that goes in process of production (planning, human resources, apital) etc is input . I that comes out is output

> TR = P, Q

T - TR - TC = PQ - TC

-> we tweak P& Q to maximise T.

shoot Run : Not quantified: Represent times when most inputs are fixed and Some are variable.

- long Run . Most in puts Vary. (the fixed inputs change due to ample time).

→ 0 = f(L, K)

L= labour k= capital

HaThodater fined

L= labour k = fixed Capital

> k = technology land, ...

G 0= - 13 +1512 +101

Short Run Production function.

0 = -L<sup>3</sup> +15 L<sup>2</sup> +10 L

Subject is dependent on Cabour (which is variable in short run)

Ang. Product = Total Product = Q L = APL

(was labour)

Cabour