

2022  
DSK

$y = \min\{a, b\}$

find the relation b/w a, b to map production??

$\frac{dy}{da}$  Normal diff ~~XX~~

Lequl derivative...

$y = \min\{a, b\}$

a = left part  
b = right part

5L (7R)  
5L 5R (2R)

Lequl Analysis: here a, b must be complements...

2nd  $a = b$   $a > b$

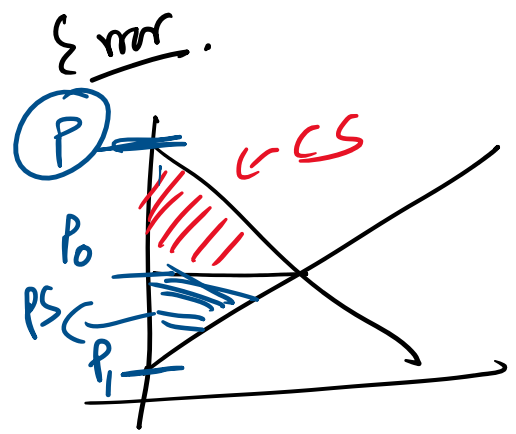
2nd  $a > b$   
 then,  $y$  is more iff  $a > b$   
 write  $a - b$   
 write  $b - a$

#  $y = a + b_1x_1 + \dots + \epsilon$   
 Price of shoes  $\rightarrow$   $\epsilon$  Error term  
 Price  $\rightarrow$  Broad Price, Prof

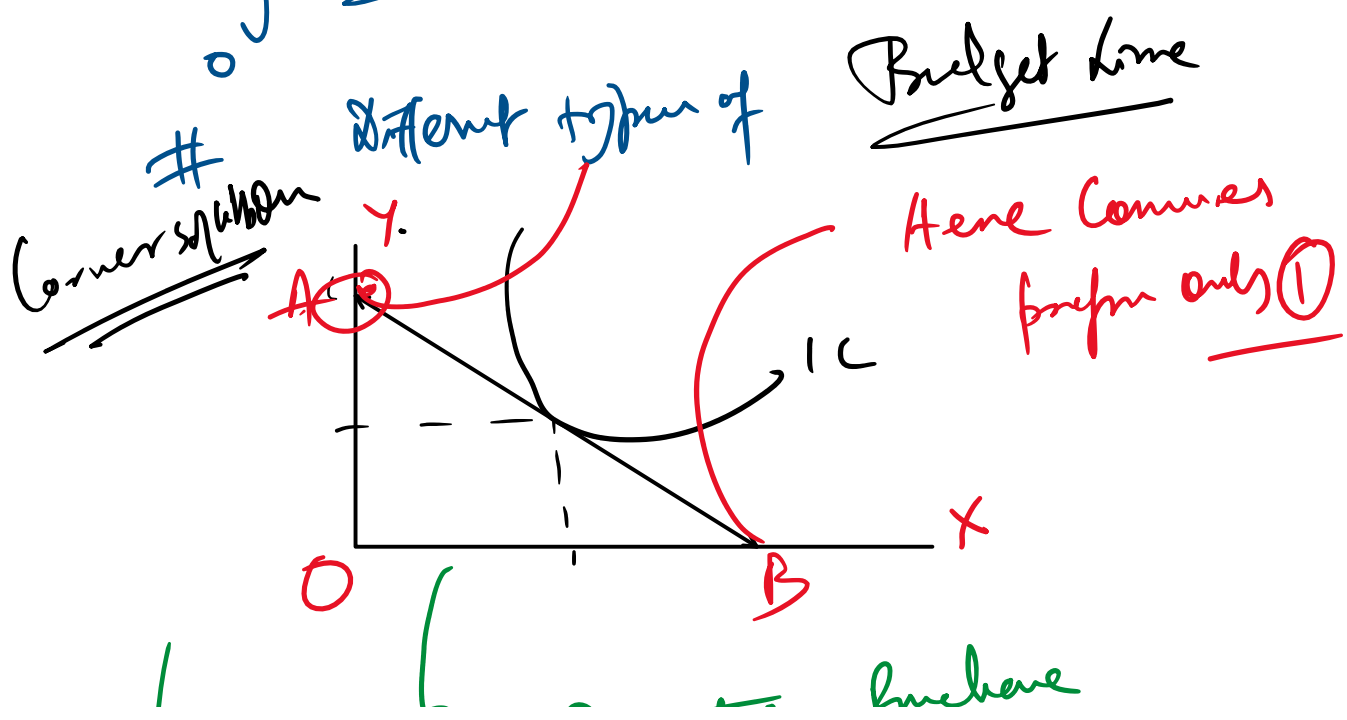
$y = a + b_1x_1 + b_2x_2 + b_3x_3 + \dots$   
 $= a + b_1x_1 + \sum \epsilon_i$

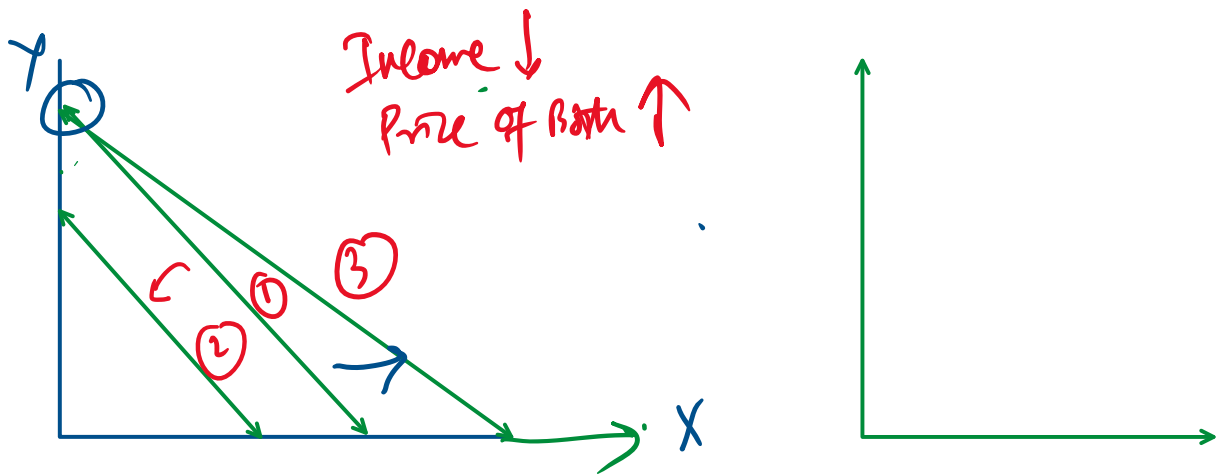
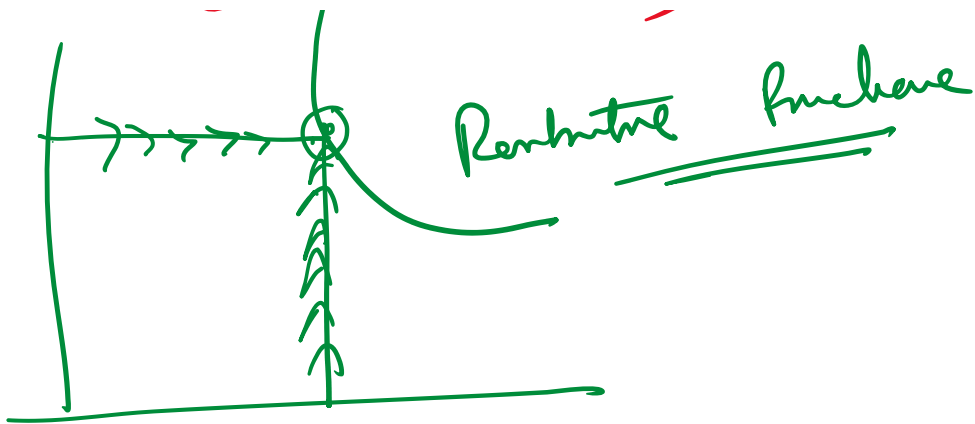
# ~~Diagram~~  
 Consumer theory

CS
PS



CS  $\rightarrow \int_0^P f(x) dx$





1 → 3

Price of X ↓  
Income ↑ But he demands to go for only X

Beta/Games  
Scenarios ...

161DR  
2nd year ...

Q > 0  
only 2  
possible  
solv

$$f(x) = x^4 - 9x^3 + 7x^2 + 8x + 15$$

SR function  $g(-x) = x^4 + 9x^3 + 7x^2 - 8x + 15$

Descartes's Rule of Sign

+ve Real Roots → 2 Sign change → (2)

-ve Root → (2)

$$y = x^2 - 2x + 1 = 0 \quad (2) \text{ sign changes}$$

$$y = (-x)^2 - 2(-x) + 1$$

x > 1

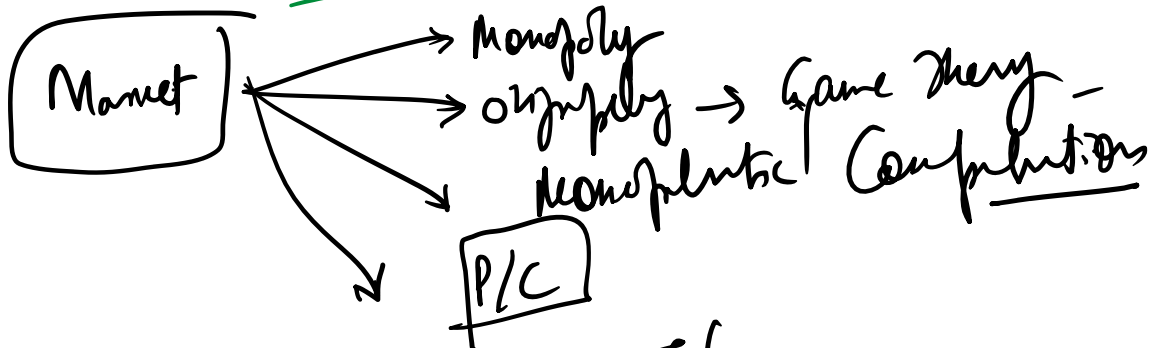
$$y = (x-1)^2$$

$$= x^2 + 2x + 1$$

$$y = (x-1)^2 = 0 \quad x = 1$$

$$y = (x^{10} - 7x^8 + 8x^6 - 7x^5 + 10)$$

+4 +ve Real roots



A plant will continue iff

$$P > AVC$$

$$P > AVC$$

$$P.S > AVC$$

$$TR > \frac{TVC}{Q}$$

Profit  $> 0$  then only proceed..

$$TR > TC$$

$$TR > TVC$$

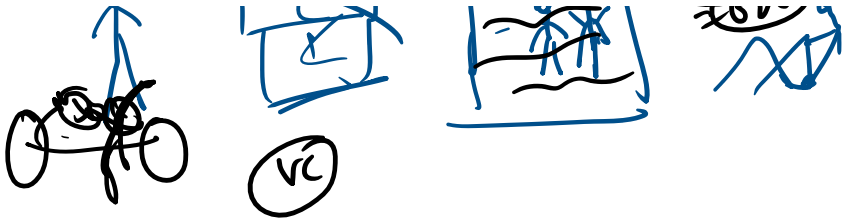
$$TR > TVC$$

So, for new firm FC should not be

premium of customer foundation meaning to

(50)





XX

VC → the divider

map  $u = (x, y)$

Sol to  $x + y = 10$   
 $x, y$

$L = 2x + y$

- ✓ 15-10M
- ✓ 5KM
- ✓ 5GM

$x + y = 10$

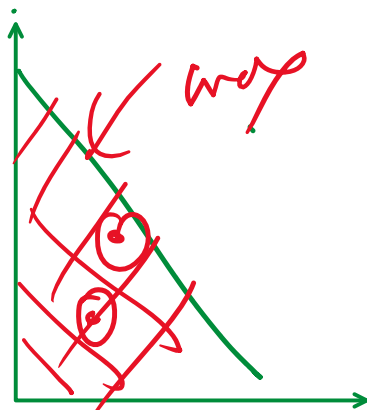
eg of a budget line

What's wrong?!

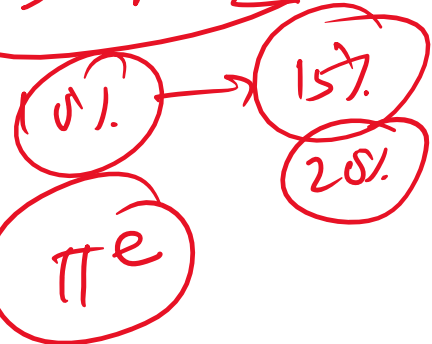
$x + y \leq 10$

No saving

$\frac{10000}{10\%} = 5\% = 5\%$   
 $\frac{11000}{12\%} = -2\%$  Loss

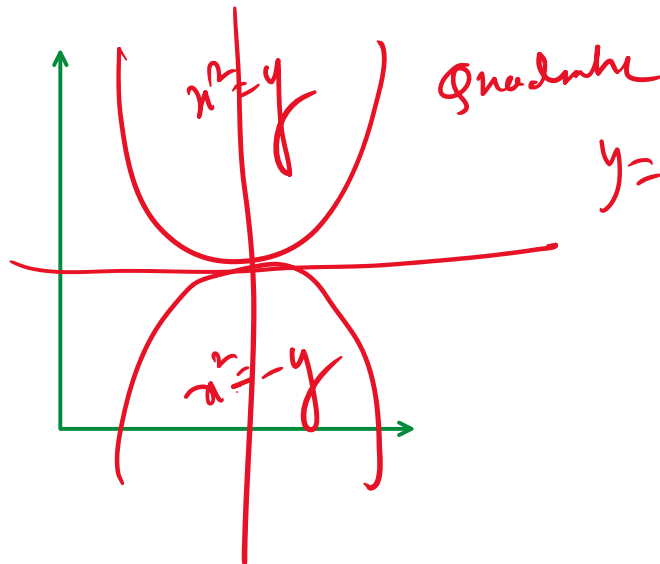
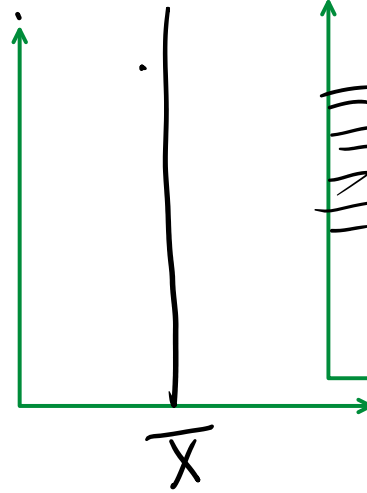
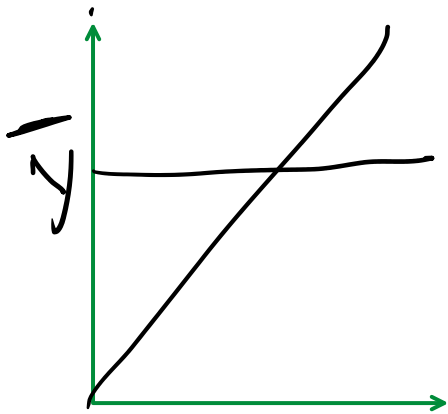
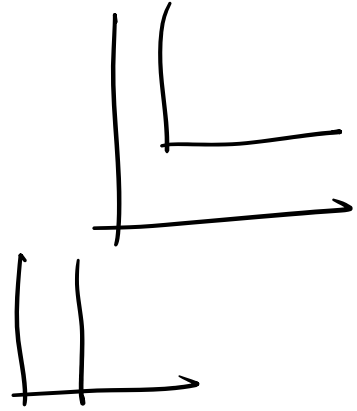
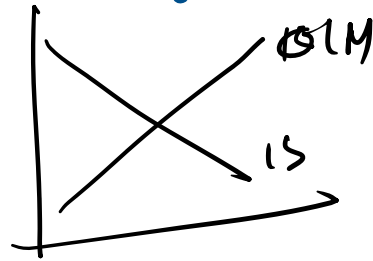
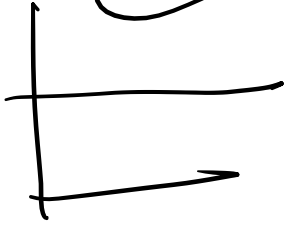


Savings  $\geq 0$



... ..

12% = -2% loss  
 So, inflation prediction is very important..  
 (20%)



$y = x^2$

