ECO 9.5.2024

09 May 2024 20:33

Numericals / Problem Based on Idea of Micro/Macro/Math Eco/ Indian Trade

$C(q) = (20 + 7q + 8q^2)$ SR vs LR functions ??

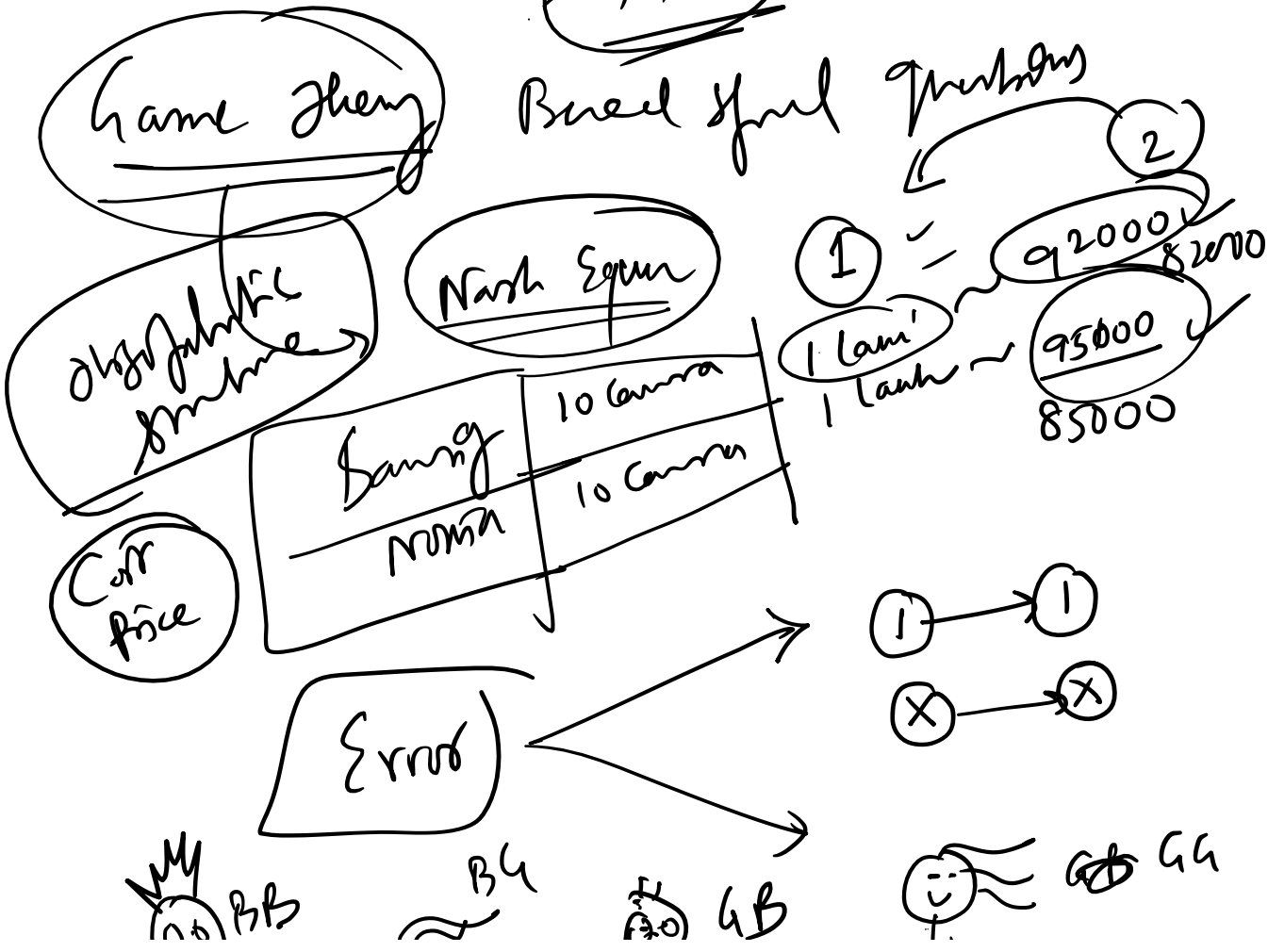
Any Const into a system → FC = 20

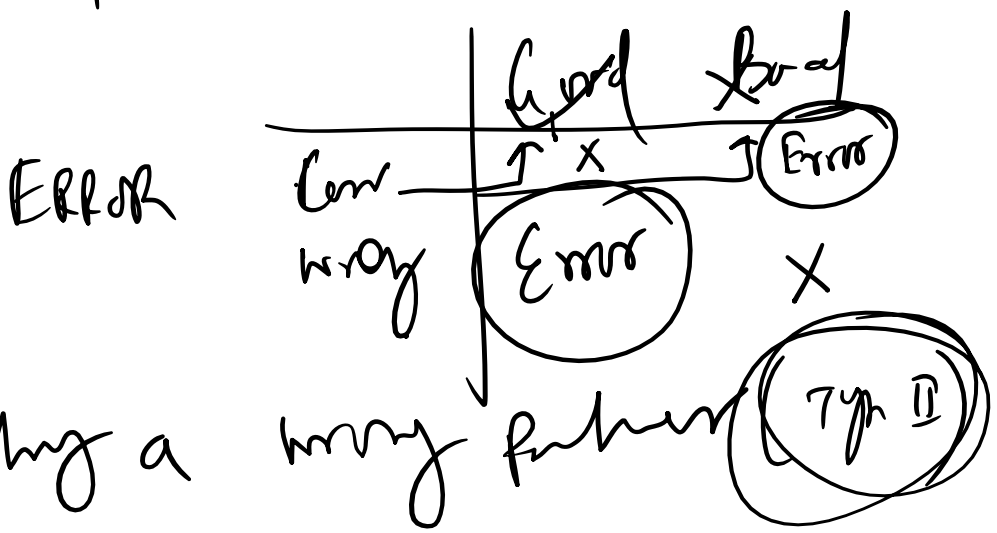
Short Run Structure ..

$C(q) = 20 + 7q + 8q^2$

$MC(q) = 0 + 7 + 16q$

$= 7 + 16q$





Accepting a wrong [illegible]

vs

Rejecting a Right Person (Type I)

$P \geq \alpha C$

$\beta > 0$

$P < \alpha C \rightarrow$ closed Dmn

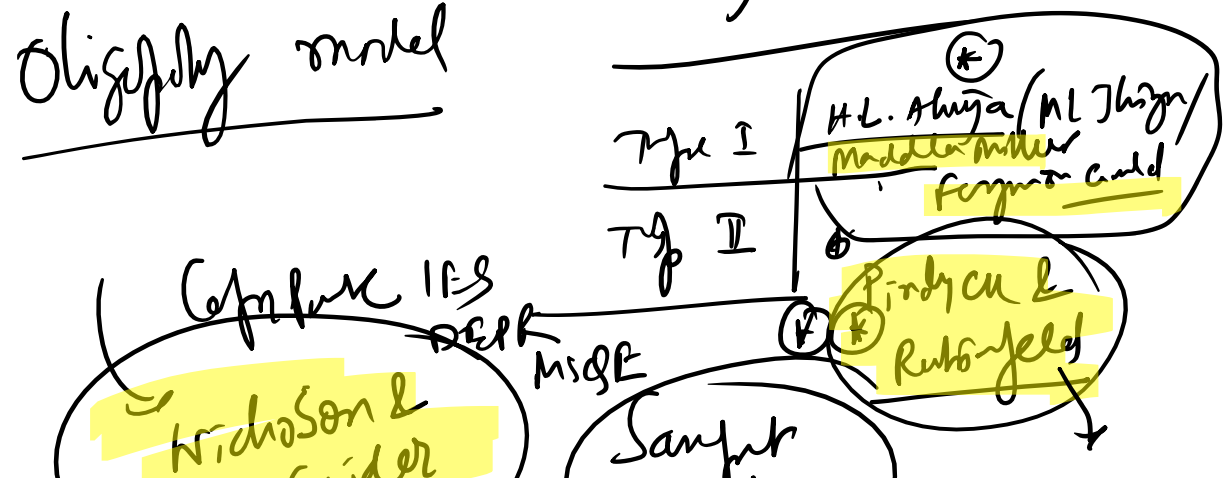
$\beta \neq 0$

15/15

20/20

11/4

Oligopoly model



Richardson & Snider

Sanjit Mukherjee

Henderson & Quandt

90623
95123

Basic Hal Varian

Micro

Even

2-2
2-4
2-6

School

Game

I. Oligopoly Market Benef

II. Normal types

III. Fundamental Games

IV. Probability Games

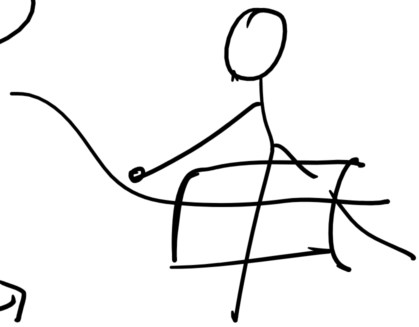
Saddle Point

$\frac{d^2y}{dx^2} = 0$

RGD Allen

Alpha C. Chiang

Saddle



37 - 1
-1, 7, -3
-1, 7, -6

Row minima

	C_1	C_2			Row minima
	3	-1	4	2	-1 ✓
	-1	-3	-7	0	-7 ✓
	4	-6	2	-9	-9 ✓
Column maxima	4	-1	4	2	

IES

as / Eng

Tue

Fri

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Row minima
Column maxima

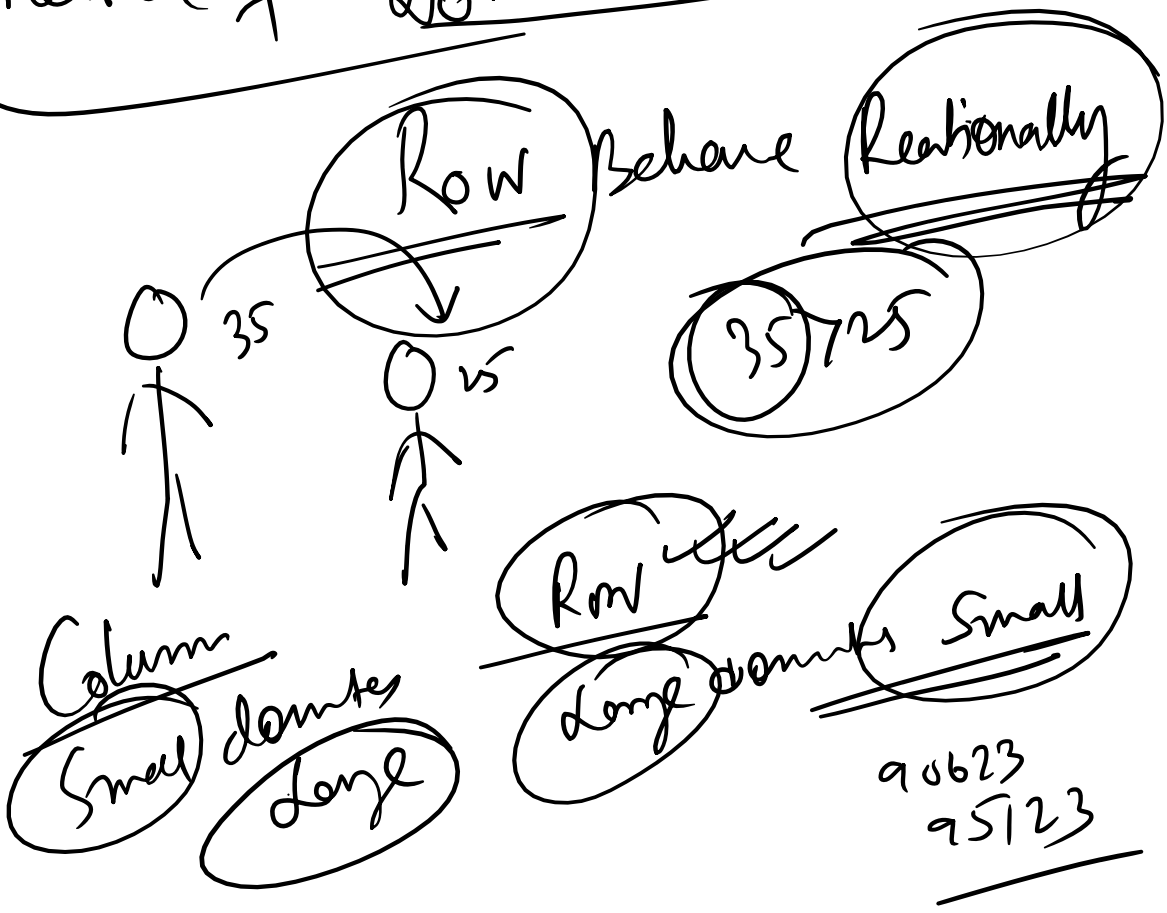
Column maxima

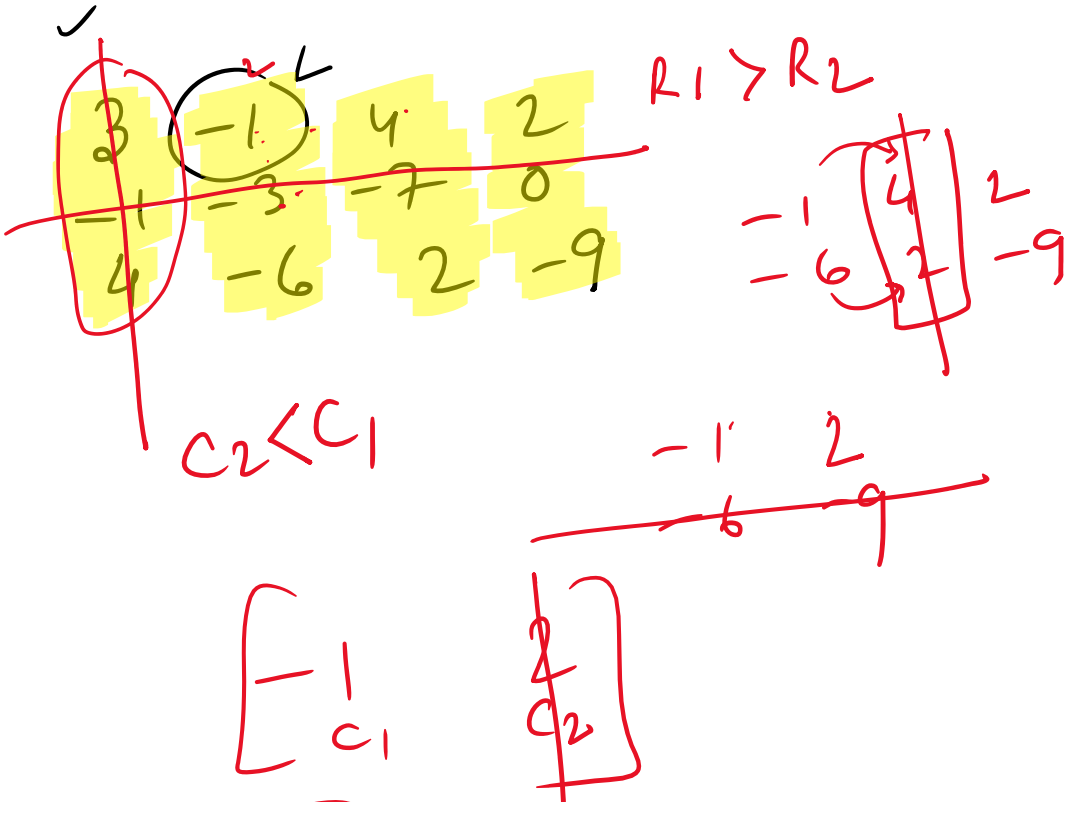
Saddle Point (R_2, C_2)

Value of the Game (-1)

value of we have (-1)

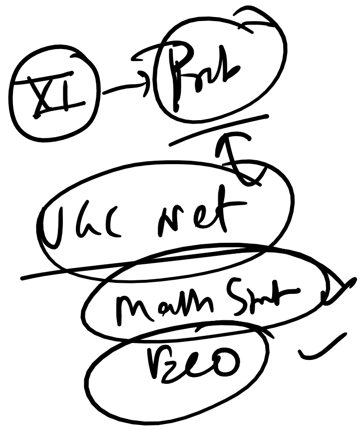
Method of Dominance





[c_1 c_2]

[-1]



Probability Scenario

Formula for solving Case when it doesn't come down to 1×1

$$\begin{bmatrix} 3 & 2 \\ -6 & 7 \end{bmatrix} \quad \begin{matrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{matrix}$$

$$p = \frac{(a_{11} a_{22}) - (a_{12} a_{21})}{(a_{11} + a_{22}) - (a_{12} + a_{21})}$$

$$= \frac{3.7 - (-6)(2)}{\ }$$

4m

> 0

$= 0$

Can

Value of the Core > 0

$= 0$

< 0 (entire player are at a loss) (Loss > Payoff)

$+5$
-30
-25

$+50$
-25
$+25$

-50
-30
-80

① IES

② 5

LtoR

TtoB

2	4	3
4	5	2
7	6	8
3	1	7

8	5
6	7
7	6
4	2

Tuesday −2

Twistday

[7 6 8]

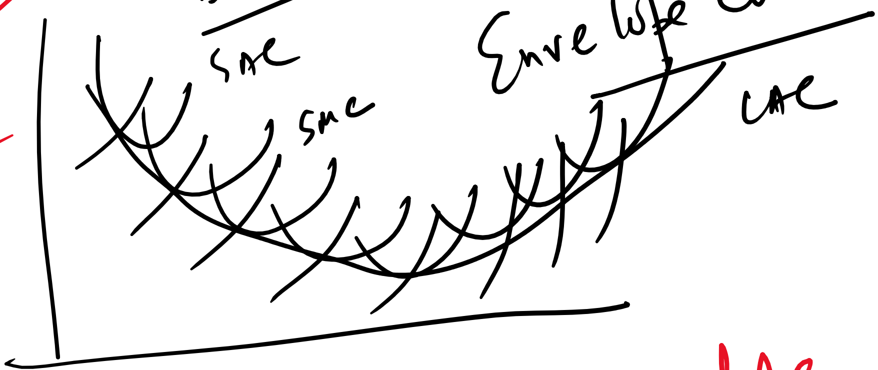
5 4 en → 6

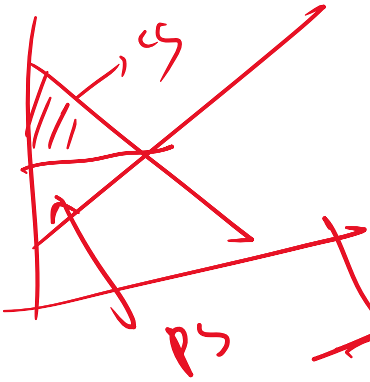
Target

Bottom

Bottom

Envelope Curve

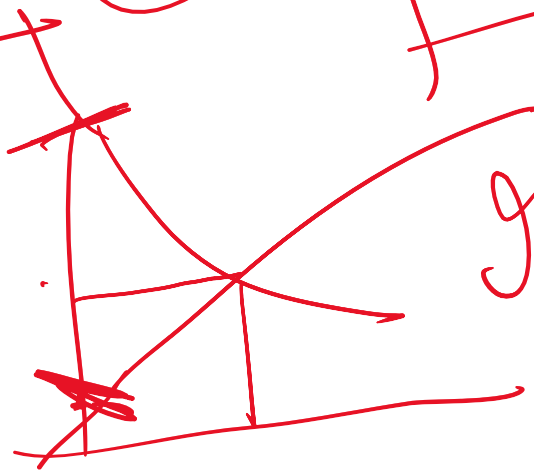




$\frac{dy}{dx} = -1$

from Envelope

CS/PS



Integration

ISI

strictly determine: Ting > 0

Ting ≥ 0 → Unique answer

$$\begin{bmatrix} \lambda & 6 & 2 \\ -1 & \lambda & -7 \\ -2 & 4 & \lambda \end{bmatrix}$$

min: 2, −7, −2

max: −1, 6, 2

Value of the Game: 2

maximin: −1 → lower range

minimax: 2 → upper range

$-1 < \lambda < 2$