

MICRO ECONOMICS : STUDY OF HOW AN INDIVIDUAL MAKES "CHOICES" UNDER SOME CONSTRAINTS.

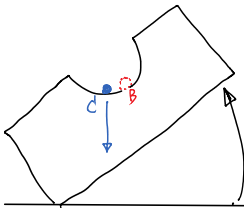
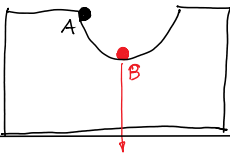
- CONSUMPTION CHOICES
- PRODUCTION CHOICES
- INVESTMENT
- WORK VS, LEISURE
- PHYSICAL CONSTRAINT
- FINANCIAL CONSTRAINT
- TIME CONSTRAINT

TOOLS USED IN MICROECONOMICS (3)

(I) EQUILIBRIUM ANALYSIS

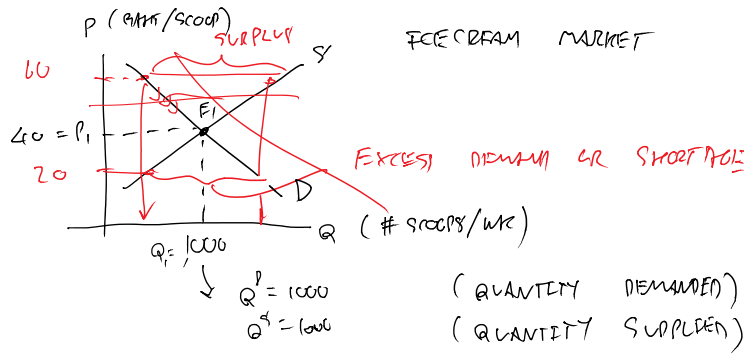
EQUILIBRIUM IS A STATE OR A CONDITION THAT WOULD CONTINUE INDEFINITELY AS LONG AS NO OUTSIDE FACTORS UPSET THE EQUILIBRIUM

EX: THE BALL AT POINT B IS "IN AN EQUILIBRIUM"



- THE BALL AT B IS NO LONGER IN AN EQUILIBRIUM.
- THE BALL AT C IS "IN AN EQUILIBRIUM"

IN ECONOMICS



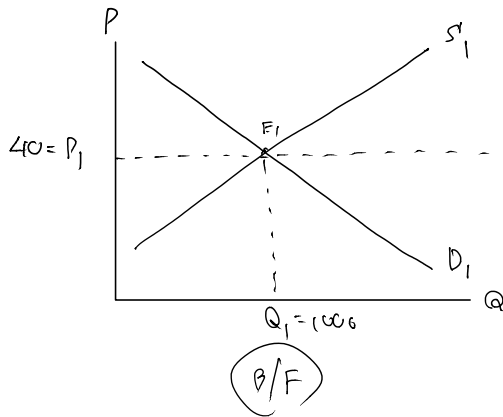
PASSPORT
CONTROL

1	2	3	4	5	6	7
A	B	C	D	E	F	G

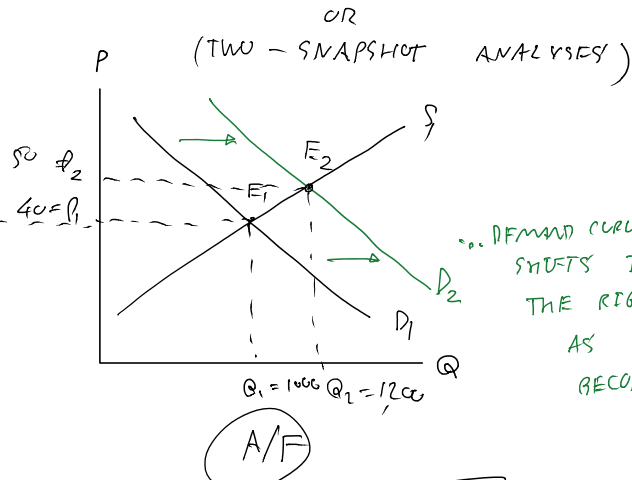
II

COMPARATIVE STATIC ANALYSES

(BEFORE - AND - AFTER ANALYSES)



$$\begin{aligned} P_1 &= 40 \\ Q_1 &= 1000 \end{aligned}$$



$$\begin{aligned} P_2 &= 50 \\ Q_2 &= 1200 \end{aligned}$$

... DEMAND CURVE
SHIFTS TO
THE RIGHT
AS WEATHER
BECOMES HOTTER.

$P \uparrow$

$Q \uparrow$

III

CONSTRAINED OPTIMIZATION

MAKE IT AT THE BEST USE

EX)

A CONSUMER TRIES TO MAXIMIZE HIS/HER UTILITY
GIVEN BUDGET CONSTRAINT:

MATHEMATICALLY,

SUPPOSE WE HAVE 2 GOODS: X & Y

P_X = PRICE OF GOOD X (BAHT/UNIT)

P_Y = PRICE OF GOOD Y (BAHT/UNIT)

M = MONEY INCOME (BAHT/WK)

$$\begin{array}{ll}
 \text{MAXIMIZE} & U(x, y) \\
 \text{SUBJECT TO} & \underbrace{P_x \cdot x + P_y \cdot y}_{\text{TOTAL EXPENDITURES ON } x \text{ \& } y} \leq M
 \end{array}$$

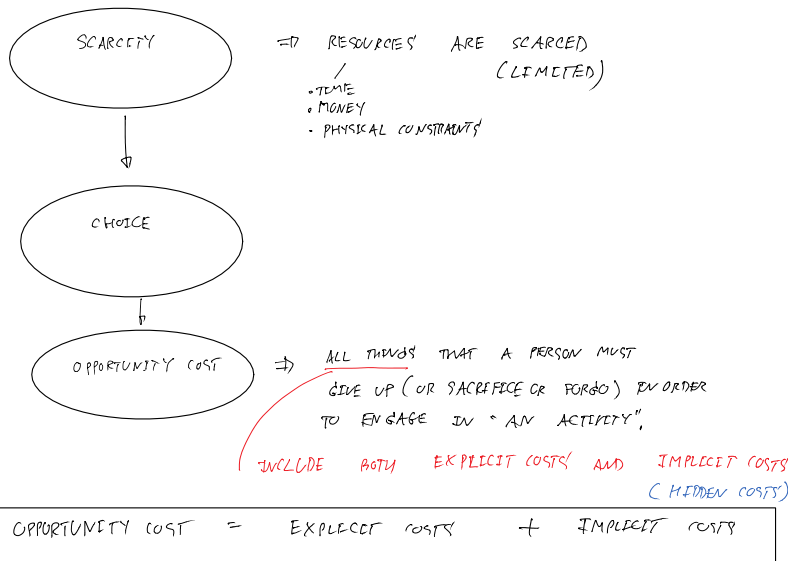
→ OBJECTIVE FUNCTION

→ CONSTRAINT

TOTAL
EXPENDITURES
ON x & y

$$(x^* = 9, y^* = 9)$$

SCARCITY - CHOICE - OPPORTUNITY COST (S-C-O)



EX: Q: WHAT ARE THE OPP. COST OF STUDYING AT BE FOR 4 YRS?

A:

TUITION FEES	=	160,000 × 4 =	640,000 AMT	}	EXPLICIT COSTS	
ACCOMMODATION COSTS	=	5,000 × 48 =	240,000 AMT			
ALLOWANCES	=	5,000 × 48 =	240,000 AMT			
UTILITY BILLS	=	3,000 × 48 =	144,000 AMT			
				1,164,000 AMT		

FORGONE SALARY/INCOME
ONE COULD HAVE EARNED
IF HE OR SHE WORKS
INSTEAD

= 10,000 × 48 = 480,000 AMT

OPPORTUNITY COST = 1,164,000 + 480,000 ≈ 1.7 M

DECISION RULE

- IF $\text{BENEFIT (B)} > \text{COSTS}$, THEN DO THE ACTIVITY.

- IF $B < C$, DO NOT DO THE ACTIVITY.

PRODUCTION POSSIBILITY CURVE (PPC) : A CURVE SHOWING

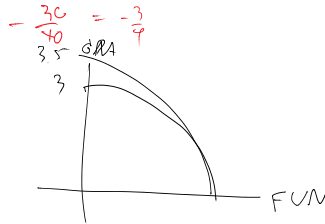
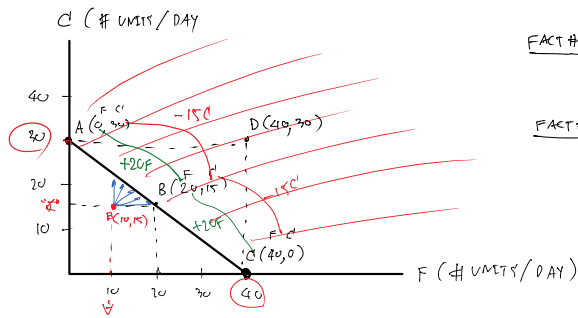
ALL POSSIBLE COMBINATIONS OF PRODUCTION GIVEN AVAILABLE RESOURCES AND THE STATE OF TECHNOLOGY.

LET'S CONSIDER A GUY: MR. TOM HANK.

2 PRODUCTION ACTIVITIES :

- CATCHING FISHES
- GATHERING COCONUTS

HIS TIME = 24 - 8 = 16 WORKING HOURS.



FACT #1 LINE AC IS SO CALLED
" PRODUCTION POSSIBILITY
CURVE (PPC)"

FACT #2 CHOICES "OUTSIDE" THE PPC
ARE **INFEASIBLE** TO PRODUCE.
(UNATTAINABLE) (UNTRY)

CHOICES "ALONG" THE PPC
ARE **FEASIBLE** TO PRODUCE
AND **EFFICIENT**.

CHOICES "INSIDE" THE PPC
ARE "FEASIBLE" TO PRODUCE

HOW AVAILABLE BUT **NOT EFFICIENT** ☹️

FACT #3 MORE OF "FISH" = "TRADE OFF" •

GIVEN = RESOURCES,
TO GET ∞, HE MUST
GIVE UP SOME (C), VICE VERSA.

FACT #4 JUMPING FROM A → B :

TO OBTAIN 20F, HE MUST GIVE UP 15C.

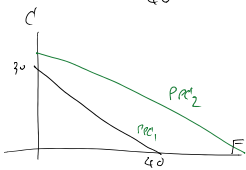
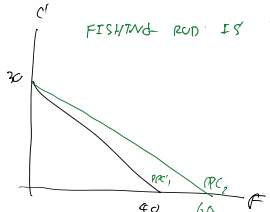
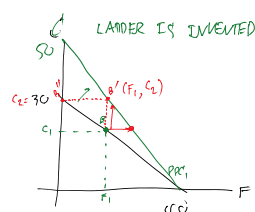
$$\frac{15}{20} = \frac{3}{4} = 0.75$$

THEREFORE, OPPORTUNITY COST OF AN EXTRA FISH IS EQUAL TO

$\frac{3}{4}$ UNIT OF FORGONE COCONUT.

THE SLOPE OF THE PPC ($-\frac{3}{4}$) REFLECTS THIS OPP. COST OF A FISH.

FACT #5



BOTH LADDER AND
FISHING ROD ARE USED