

17/5

i.e.,

$$\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$$

Q: Why (3,3) is not a utility maximizing choice?

(3, 3)

TU = 45 Utils

$$\frac{MU_x}{P_x} = 3 < \frac{MU_y}{P_y} = 6$$

advice: since $\frac{MU_y}{P_y} > \frac{MU_x}{P_x}$
 then he should buy
 more of Y
 and less of X.

buy more Y
 and buy less X
 -X → loss = -6 Utils
 +2Y → gain = +9 Utils
 +3 Utils

(2, 5)

TU = 48 Utils

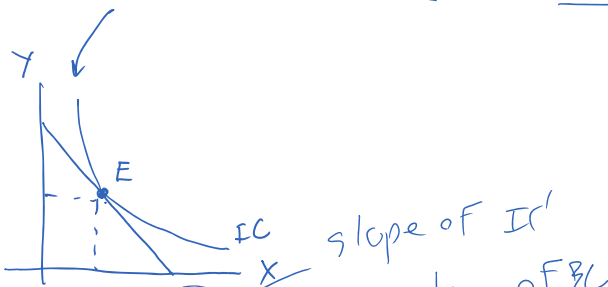
$$\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$$

(4) (4)

U.S version: BANG FOR THE BUCK

TH version: BANG FOR THE BAHT

COMPARISON BETWEEN ORDINAL APPROACH AND CARDINAL APPROACH



At E: $MRS' = \frac{P_x}{P_y}$

Since $MRS' = \frac{MU_x}{MU_y}$, then

$$\frac{MU_x}{MU_y} = \frac{P_x}{P_y}$$

$$\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$$

$$\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$$

Conclusion

The two give the same solution

Proof on $MRS' = \frac{MU_x}{MU_y}$

ACCH

$\frac{UV}{Y}$

o
o

approaches
e same
(or advice)

→ -50

UES W/

→ +50

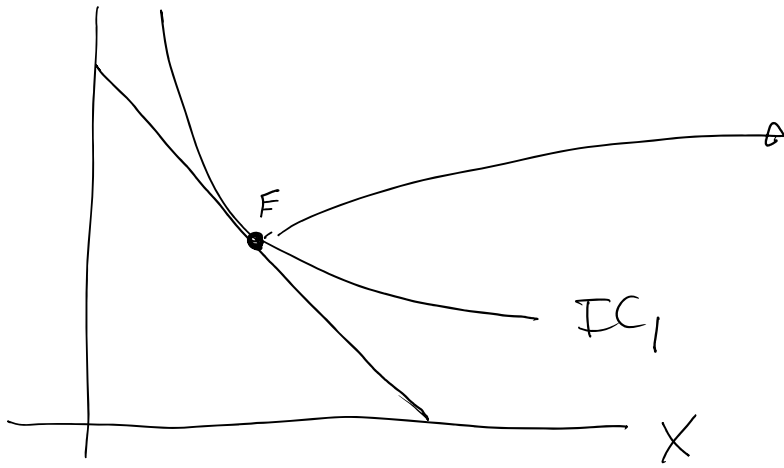
!

$MU_x \cdot \Delta X$

$$\frac{MU_x}{MU_y}$$

$$= \frac{MU_x}{MU_y}$$

#



At this point:

slope of IC = slope of BL

$$MRS = -\frac{P_x}{P_y}$$

$$-\frac{MU_x}{MU_y} = -\frac{P_x}{P_y}$$

$$\frac{MU_x}{MU_y} = \frac{P_x}{P_y}$$

OR

$$\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$$

occurred
at E.