0

The idea of revealed preference in that we can bear about ones preferences by observing she's choices

To Alice buys a coffee and a matter when should be the could have bought a tea and a dankh for the sub- show much the much the should as much could be able and mutter than bundle at least as much at the able of the other bundle.

- To formelize their a bit, consider 2 bundles related as follows:

(y, y2) (x, x2)

(x1, x2) is what is actually bought:

=> P1X1+ P2X2 = W

the consumer could have afforded (151, 192) at manne mand games pr, Poz

=> PIWI+ RYZ = W

Togsker"

P1X1+ P2X2 = W = P141+ P2432

and these we can say "Ki, Ke) us directly revealed professed to (61,42)".

The Procepte of Renealed Reference: Let (x, xz) be
the chosen bundle at prices (p, pz), and let
(y, yz) be some other bundle such that
(y, yz) be some other bundle such that

Then if the consumer

P(X, +P2Xz) > P(y, +P2yz). Then if the consumer

is chosen the most preferred bundle she can

is chosen the most preferred bundle she can
all chosen the most preferred bundle she.

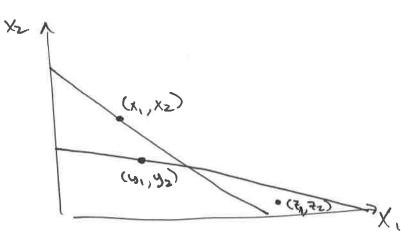
-> Mole thus strong profesence can only be intered when profesence are strictly convex.

→ B/c only then in there a unique optimal consumption bundle

Indirect revealed preference

Because of transitivity, we can have also we the concept of revealed profesence motivedby

- e.g. consider



income also) allows us to see the consumer under 2 different budget constraints

- under one, was home bundles (x, xz) chosen over bundle (y, yz) and

P1X1+P2X2 > P131+P232

which means (x, x2) is remeded problemed to (51, 52)

1.e. (x, x2) + (51, 52)

under the second budget constraint, whose prices we'll alumble as (q1, 92), bundle (21, 72) and chosen one bundle (21, 72) and

9, 4, + 9242 > 9,2, + 9,2 32

which means (y, 42) is rerealed preferred to (2, 72)

i.e. (41,42) > (21,22)

> Thus, by the property of transitivity we have $(X_1, X_2) \succ (Z_1, Z_2)$

revealed projected to (21, 22)

(a)

to another is it in other directly or indirectly revealed preferred.

why is revealed preference a testified concept?

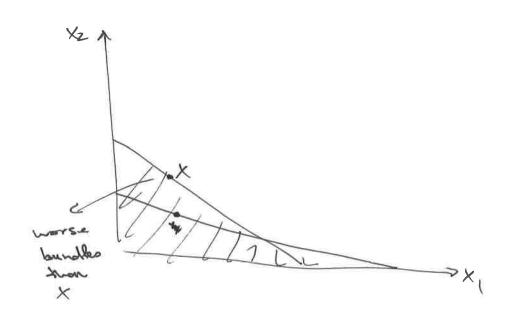
The helps in ideality preferences given also of
behavior

behavior

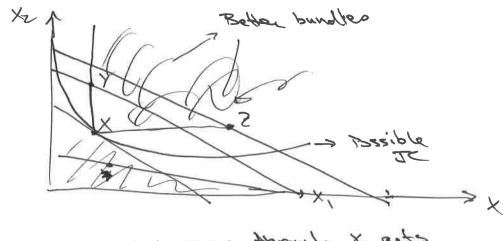
transming preferences are helpful 30 that we
can think about how chices might oliffer

can think about prices or magnes

~ consider;



Now when zones change"



Trudist come through X gets

Mose the precisely identified

on see charas under more

on see thousand transfers

A couple axioms

1) The weak axion of revealed preference (WARP)

(6) (X, X2) directly revealed preferred to

(5) (52), and the two bundles are not

(5) (52), and the count larger that

the same, then it count larger that

(5) (42) in directly revealed preferred

(5) (42) in directly revealed

2) The Strong Axion of revealed profesence (SARP);

I'V (X1,1x2) is revealed profeseed to (13,1 132);

I'V (X1,1x2) is revealed profeseed to (13,1 132) is difficult

(either directly or indirectly) and (13,1 132) councily

from (X1,1x2) then (131,132) council to (X1,1x2).

or indirectly revealed professed to (X1,1x2).



- There axioms tell us what land of charier are consistent of retional behavior by the consumer.
- The porticular choices satisfying the SARP satisfy the necessary and sufficient conditions for the observed choices to be compatible by the economic model of consumer choice.
- oud how some stay on wat how to and was some can deed and how we can deed we than to apply the ornaple of remaining and graphs of the on into the contract of the ornaps.