## **Revealed Preference**

WARP: If a consumer is observed to make a bunch of choices, choosing  $\mathbf{x}^i$  when the prices are  $\mathbf{p}^i$ , then

$$\mathbf{p}^i \cdot \mathbf{x}^i \ge \mathbf{p}^i \cdot \mathbf{x}^j o \mathbf{p}^j \cdot \mathbf{x}^j < \mathbf{p}^j \cdot \mathbf{x}^i$$
 (1)

for any distinct observations i and j

SARP: There is no cycle of any length M, such that

$$\mathbf{p}^i \cdot \mathbf{x}^i \ge \mathbf{p}^i \cdot \mathbf{x}^{i+1} \qquad i = 1, 2, \cdots, M$$

with

$$\mathbf{p}^M \cdot \mathbf{x}^M > \mathbf{p}^M \cdot \mathbf{x}^1$$

– Typeset by  $\operatorname{FoilT}_{E}X$  –