#### How to analyze the demand and consumer behavior?

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...it is difficult to link the subjective preferences of consumers to changes in prices, income and other market variables that are objective...





#### The ordinal approach to the consumer balance



## The combinations of goods should be arranged in the order of preference



### assumption: consumers can define packages of goods and services in the order of preferences

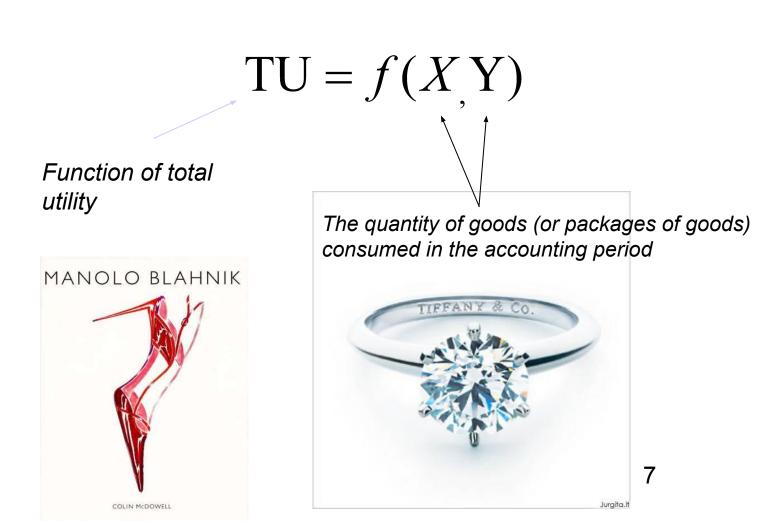


# $TU = f(X_{1,}X_{2,}...,X_{n})$

Function of total utility

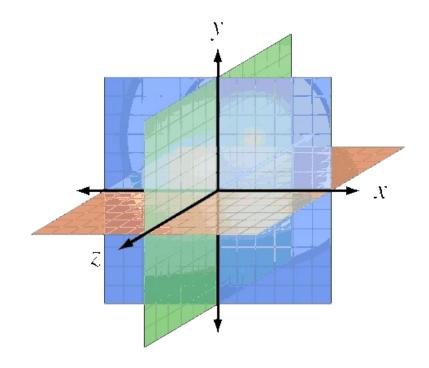
The quantity of goods consumed in the accounting period

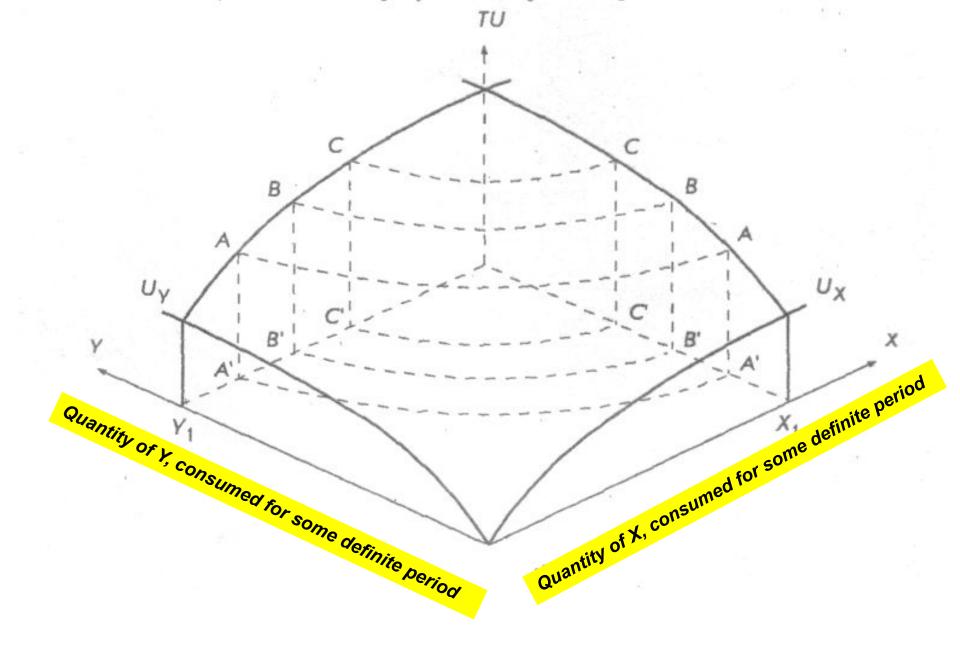




TU = f(X,Y)

This equation describes some surface in three-dimensional space







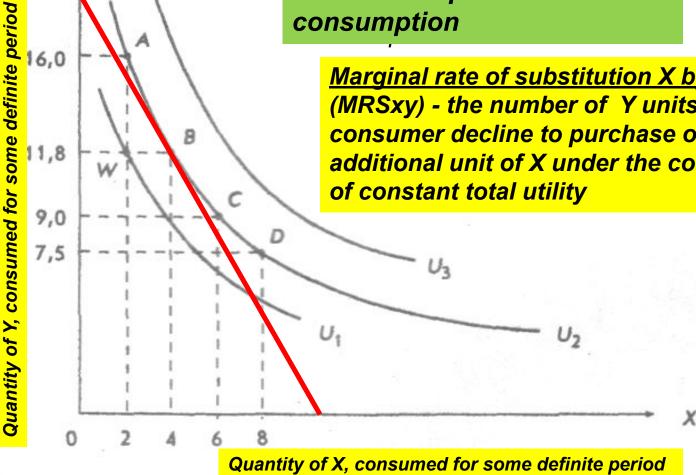
**Indifference curve** is the sum of all combinations of goods X and Y, which provide the same level of total utility or satisfaction

**Indifference** map is a chart that reflects indifference curves



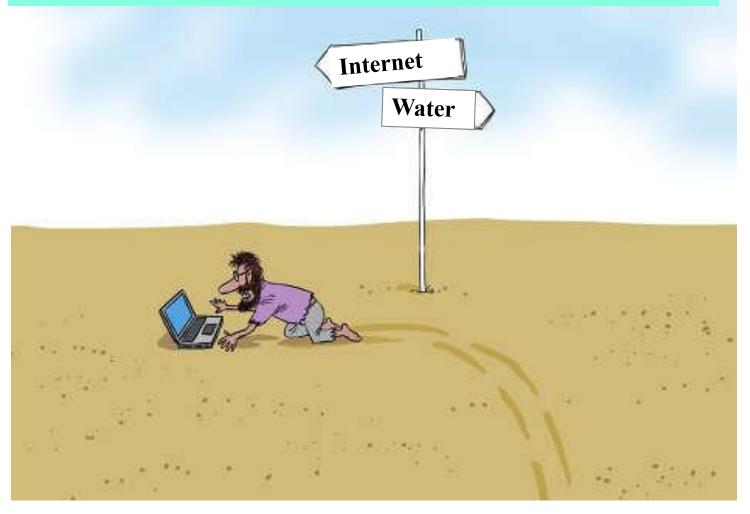
Measurement: absolute inclination of indifference curve at the point of consumption

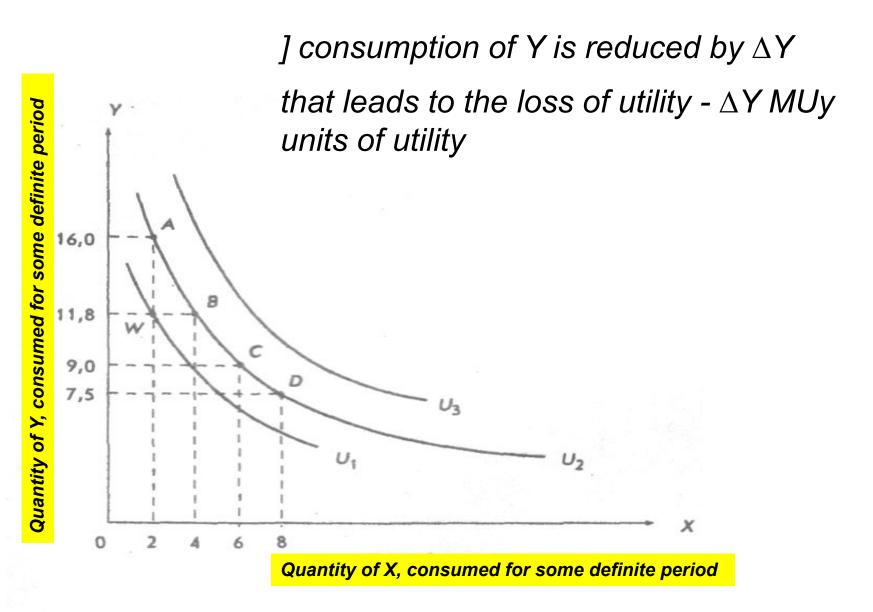
> Marginal rate of substitution X by Y (MRSxy) - the number of Y units consumer decline to purchase one additional unit of X under the condition



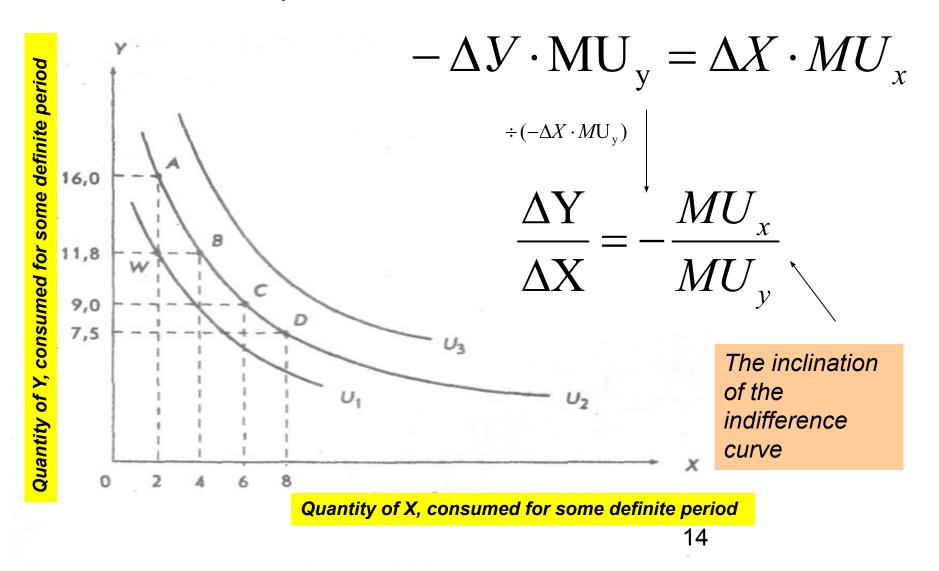
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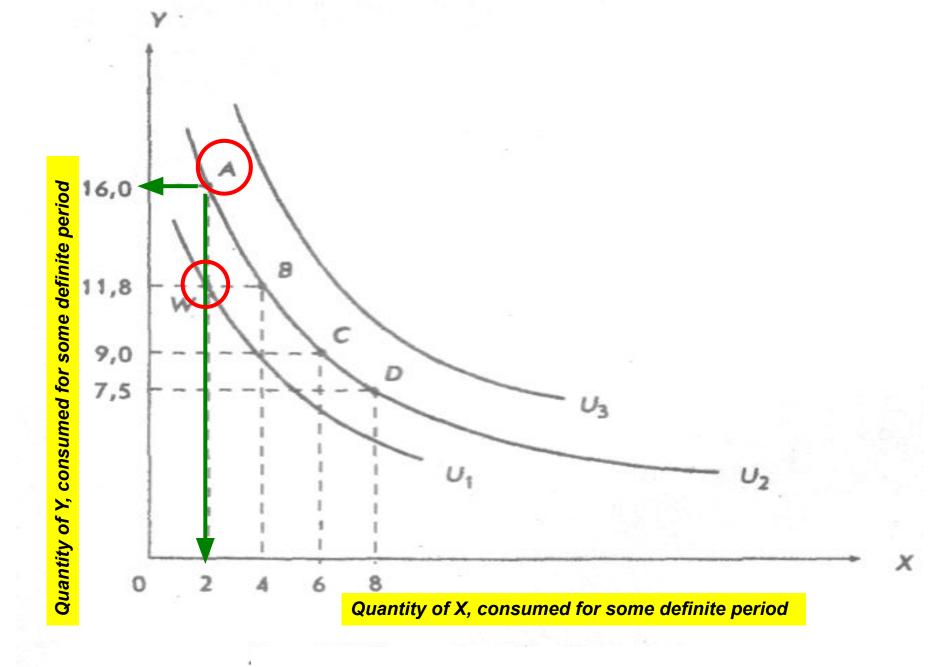
## Is there a correlation between the marginal utility and marginal rates of substitution?

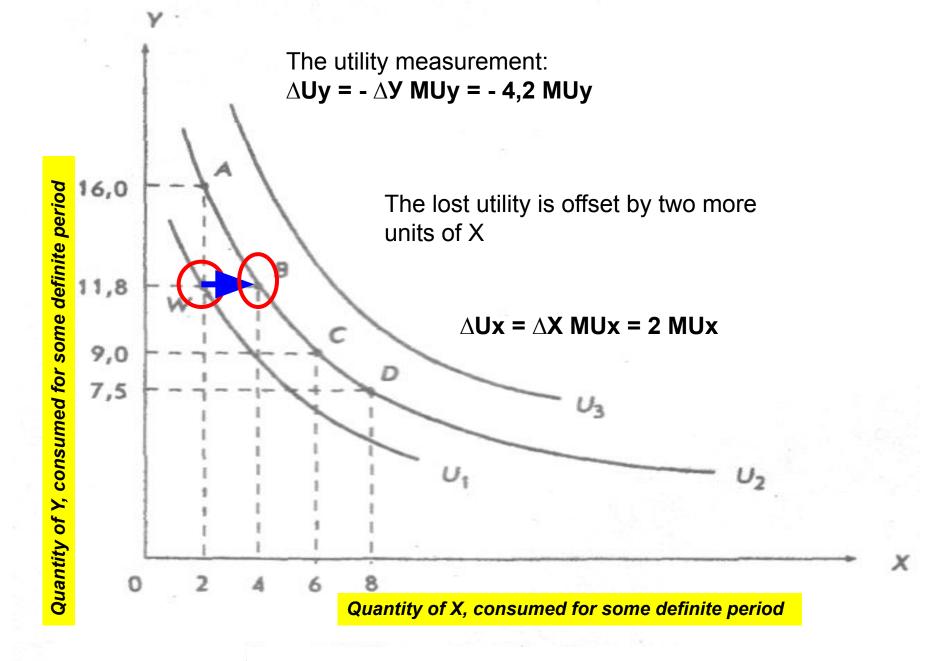




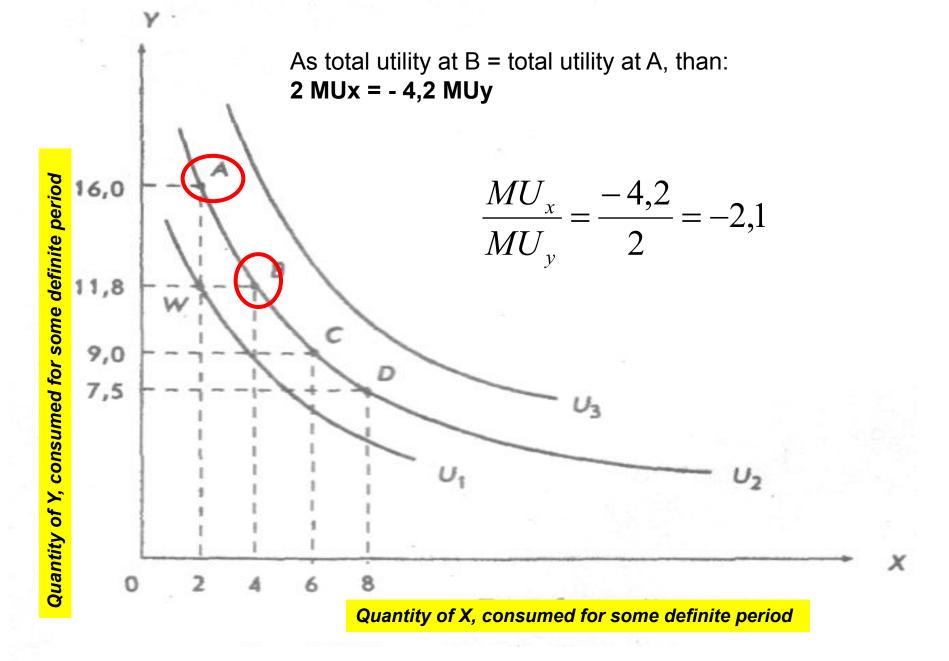
But total utility remains unchanged, loss from  $-\Delta Y$  is offset by the increased consumption of X



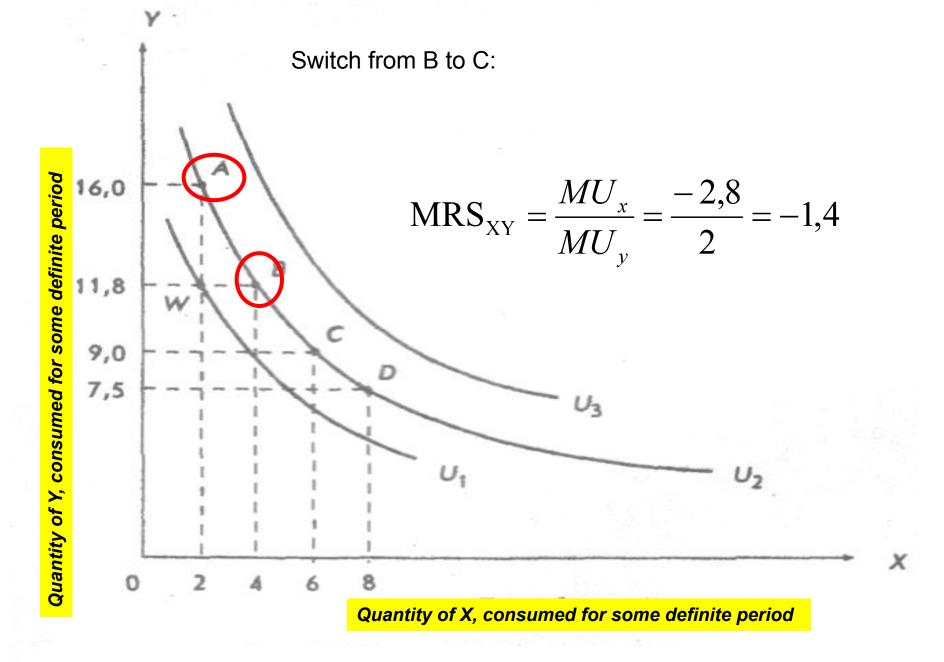




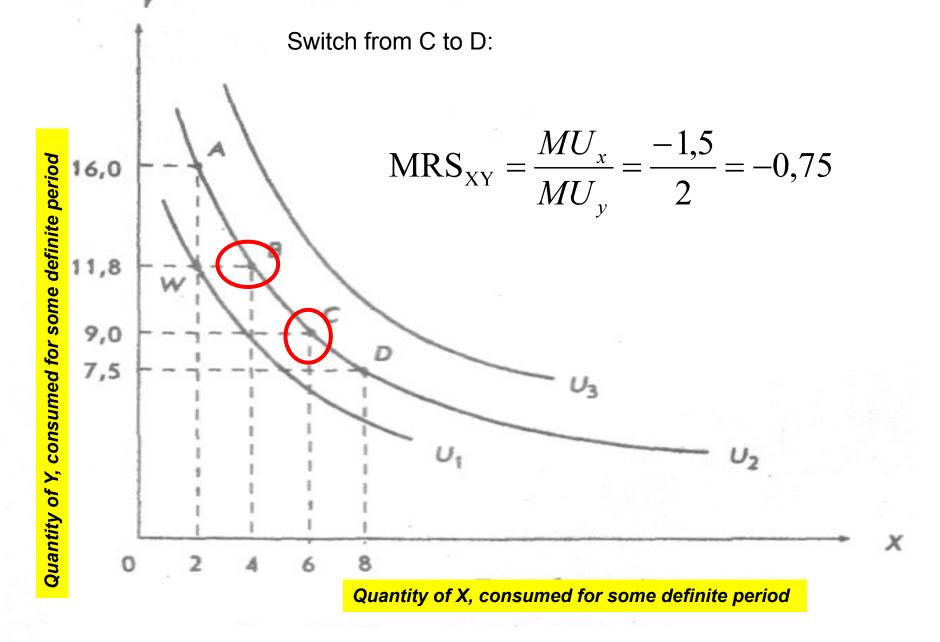
<sup>. \*</sup> 

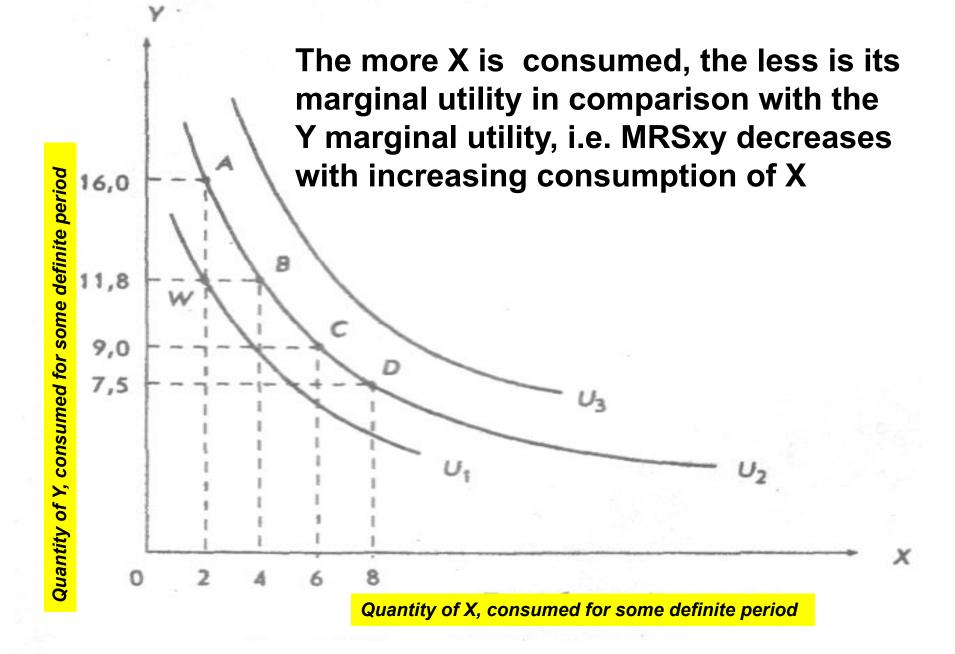


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Constantly decreasing MRS is a logical result of the assumption that the marginal utility of the product decreases as we acquire more of it



Ex: