Consumer Theory: Demand and Changes on prices and income Econ 1101

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ECON 1101 Lecture 8.3

1. Demand

2. Changes on the demand(a) Change in prices: substitution effect(b) Change in income: income effect

ECON 1101 Lecture 8.3

1. Demand Curves

Demand Curves

We just found optimal consumption for different preferences, given:

- Income
- Prices

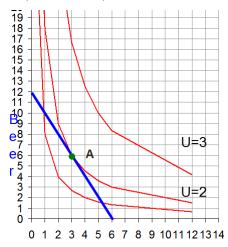
Now we are interested in moving around income and prices and seeing how optimal consumption, demand, changes (so let's keep preferences be fixed)

• Demand curves (like in EconLand but now for one person) for beer and pizza tell us how optimal quantity changes with price

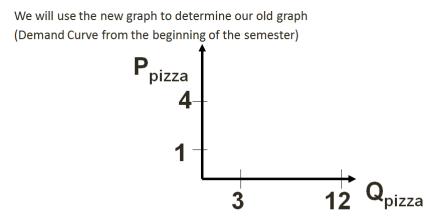
Remember at the beginning of the semester we said in demand we kept prices of other goods, income and preferences constant so lets do that and derive demand curves...

Constructing Demand

Recall how goldys preferences and optimal choice looked likeWe will focus on pizza, take optimal choice and let prices vary



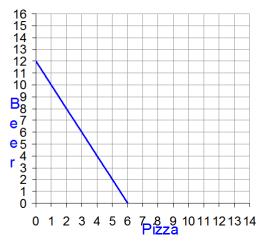
Constructing Demand



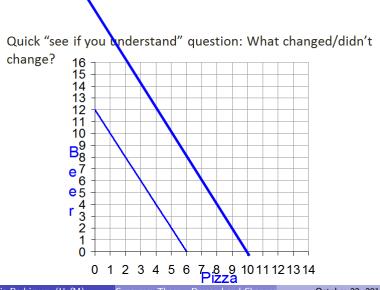
- Lower price to \$1 move along demand
- · Change income, shift demand

Demand: Changes in Income

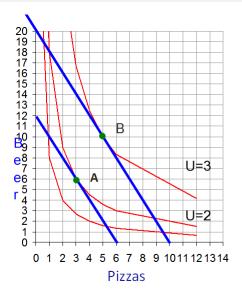
Suppose income increases to \$40... what happens?



Changes in Income: the BC



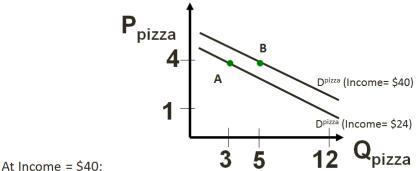
Changes in Income: what happens with OC*



At Income = \$40: Pick optimal consumption bundle and label it **B**

Changes in Income: mapping this to the demand

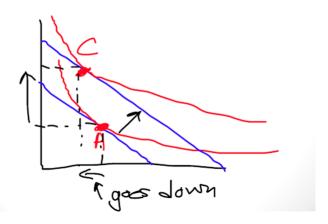
Change income, shift demand



- At income = 940.
- Pick optimal consumption bundle and label it B

Changes in Income: Inferior good

What if one good was an inferior good? (note, we can't have the case where both goods are inferior goods in this diagram)



Effects of the price change

If the price of one good decreases we have two effects:

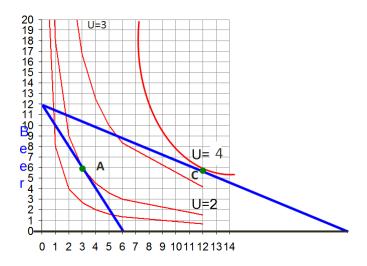
- The opportunity cost of "pizza" is now lower (recall BC)
- 2 It is also like I have more money now

We have special names for those 2 effects from price changes on demand:

- Substitution effect
- Income effect

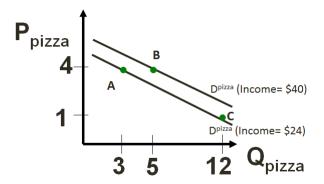
Total effect = Substitution effect + income effect

Total Effect



Total Effect of price change on Demand

Change price, move along demand curve



Substitution and Income Effects

 $I = $24 and P_{Beer} = $2 fixed$

P_{Pizza} = \$4: Label OCB A P_{Pizza} = \$1: Label OCB C 16543210987654321 B e e r С Α 0 131415161718192021222324

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Consumer Theory: Demand and Changes

Substitution and Income Effects

