

Microeconomics 1

Class #1: Introduction to microeconomic reasoning
The market

Economics

The Theory of Economics does not furnish a body of settled conclusions immediately applicable to policy. It is a method rather than a doctrine, an apparatus of the mind, a technique of thinking which helps its possessor to draw correct conclusions

John Maynard Keynes

Economics

- economics = a science of choice
- microeconomics and macroeconomics
- microeconomics:
 - consumer choice (demand-side of the economy)
 - producer choice (supply-side of the economy)
 - government (public choice)

Economic modelling

- economics is concerned with modelling social phenomena
- an economic model is a simplified representation of reality
- exogenous variable = a variable determined outside of the model
- endogenous variable = a variable for which values are determined by factors within the model

The market

- the market = a mechanism that brings together buyers (demanders) and sellers (suppliers) of particular goods and services
- product markets and factor markets
- rational choice: each market participant tries to choose the best available alternative
- equilibrium: market price adjusts until quantity demanded equals quantity supplied

Experiment

- the market consists of buyers and sellers of a certain good
- what drives them to make transactions? invisible hand of the market
- experimental economics
- double oral auction (V. Smith, 2002 Nobel Prize)

Experiment - instructions

- buyers and sellers have the possibility to make offers to buy or sell a good for a certain price and will wait for the response of the second group
- when consensus is reached, a transaction takes place
- buyers: 5 groups (A, B, C, D, E)
- sellers: 5 groups (F, G, H, I, J)
- goal: maximize profits!
- 5 rounds

Experiment – instructions contd.

A buyer	Subsequent	Max. price for a given, subsequent unit	Profits Round 1	Transaction price Round 2	Profits Round 2	Transaction price Round 3	Profits Round 3	Transaction price Round 4	Profits Round 4	Transaction price Round 5	Profits Round 5
	1	100									
	2	80									
	3	60									
	4	40									
Total profits	5	20									
Û	Sum of Profits		 Σ=		Σ=		Σ=		Σ=		Σ=

Profits = transaction price - max. price

Max. price concerns only a single, subsequent unit of the good, e.g. price X next to quantity of 4 signifies that the price for the 4th unit of the good (3 units have already been bought/sold) amounts to X.

F seller	Subsequent units	Min. price for a given, subsequent unit	Transaction price Round 1	Profits Round 1	Transaction price Round 2	Profits Round 2	Transaction price Round 3	Profits Round 3	Transaction price Round 4	Profits Round 4	Transaction price Round 5	Profits Round 5
	1	10										
	2	20										
	3	30										
	4	40										
Total profits	5	50										
Û	Sum of Profits			Σ=								

Profits = transaction price - min. price

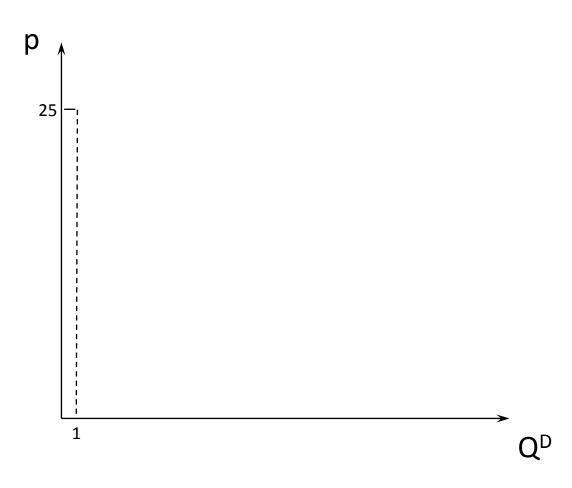
Min. price concerns only a single, subsequent unit of the good, e.g. price X next to quantity of 4 signifies that the price for the 4th unit of the good (3 units have already been bought/sold) amounts to X.

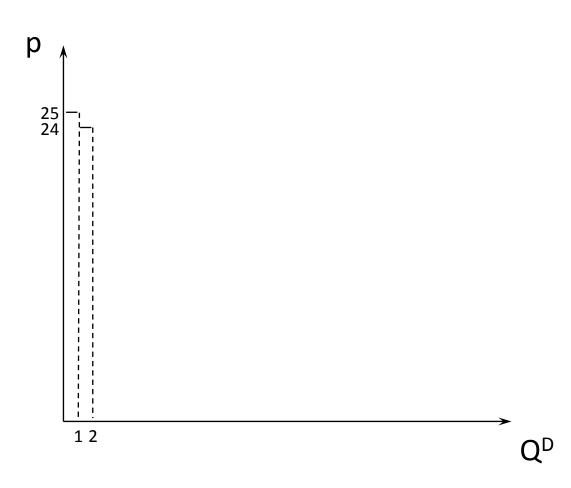
Experiment – instructions contd.

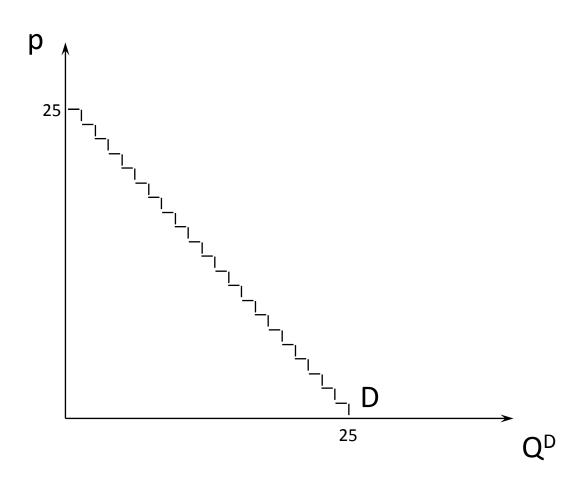
offer:

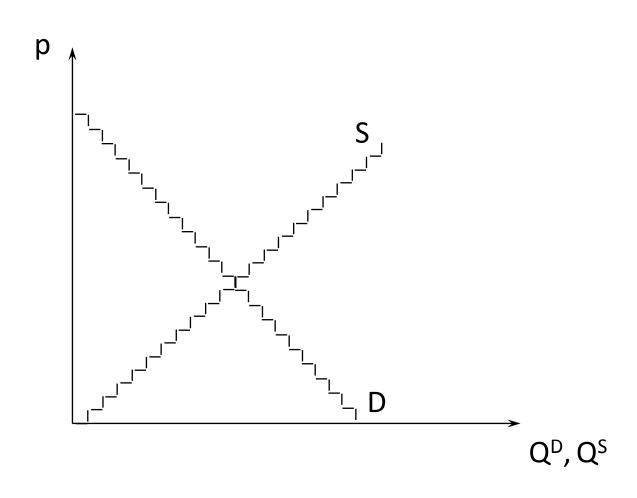
buyer/seller [letter] buys/sells [quantity] for [unit price]

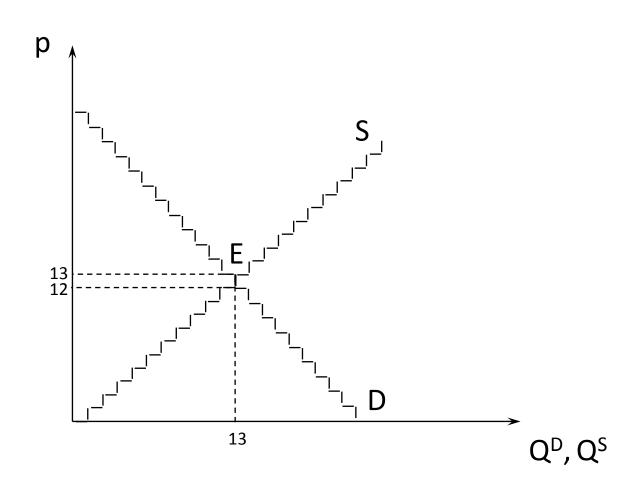
Experiment – conclusions

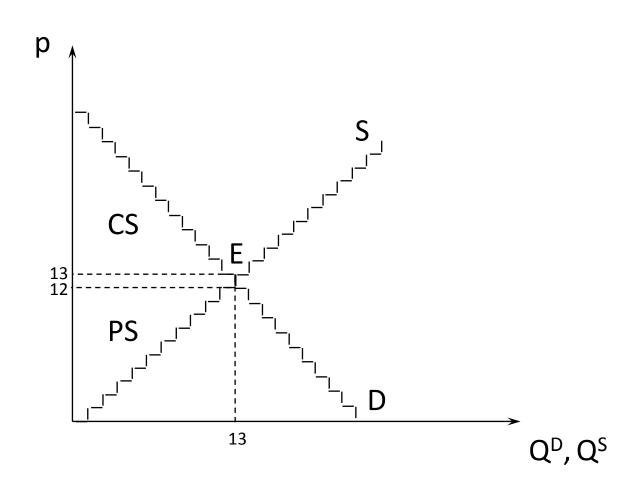






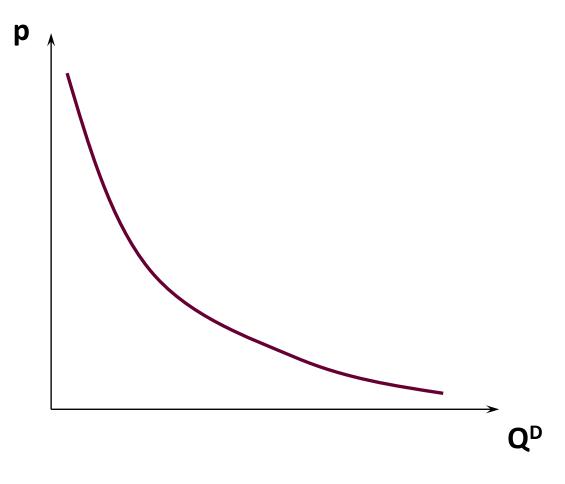




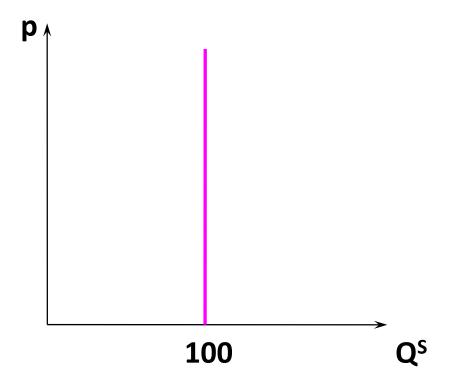


- demand Q^D(p) [inverse demand p(Q^D)]:
 - there is one person willing to pay the highest rent of 2000 zł/month for an apartment close to the University, i.e. p(Q^D=1) = 2000, Q^D(p=2000) = 1, WTP = 2000
 - there is a second person with WTP = 1900 zł/month, i.e. $p(Q^D=2) = 1900$, $Q^D(p=1900) = 2$
 - and so forth...

demand curve:



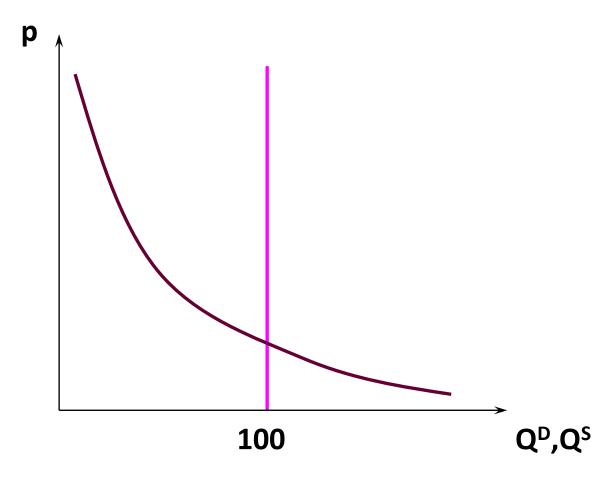
- supply Q^S(p) [inverse supply p(Q^S)]:
 - building apartments takes time so in the short-run supply is constant $(Q^S = 100)$
 - supply curve:



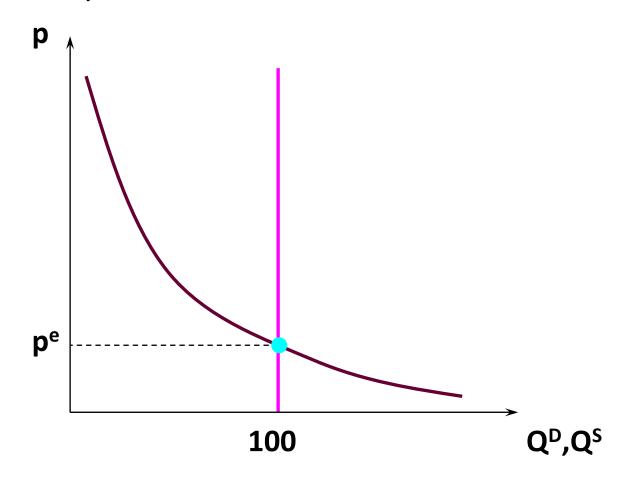
market equilibrium:

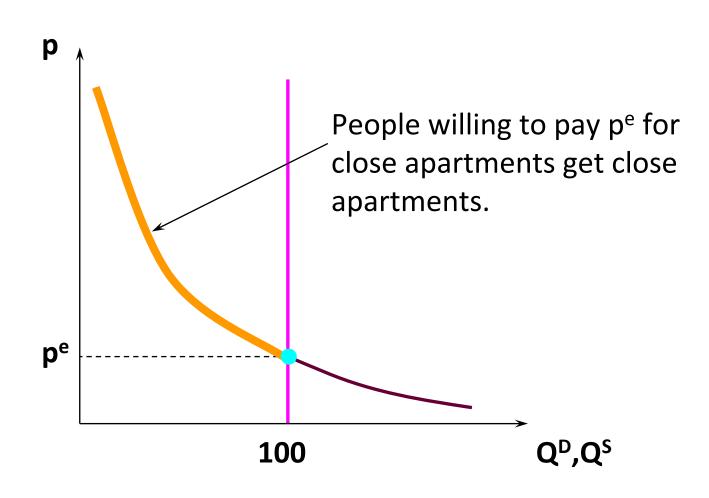
- "low" rental price ⇒ quantity demanded of close apartments exceeds quantity available ⇒ price will rise
- "high" rental price ⇒ quantity demanded less than quantity available
 ⇒ price will fall
- quantity demanded = quantity available ⇒ price will neither rise nor fall
- so the market is at a (competitive) equilibrium

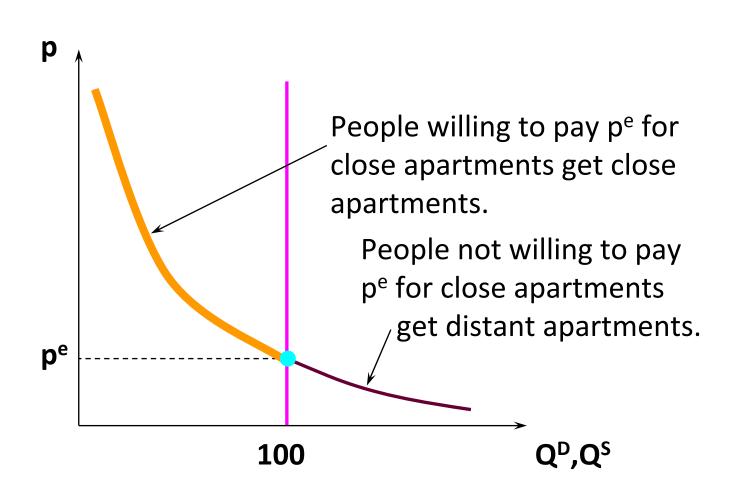
market equilibrium:



market equilibrium:



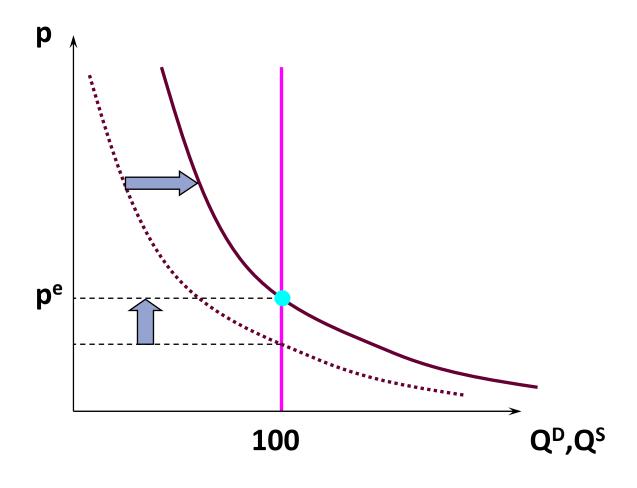




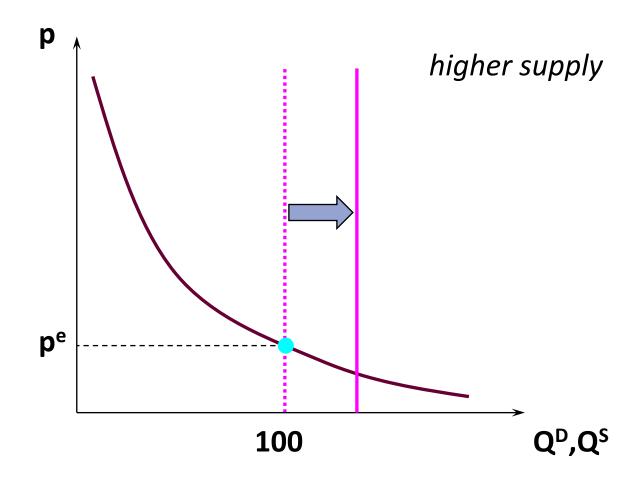
- Q: Who rents the close apartments?
- A: Those most willing to pay.
- Q: Who rents the distant apartments?
- A: Those least willing to pay.
- so the (competitive) market allocation is by WTP

- comparative statics:
 - exogenous variables:
 - price of distant apartments
 - number of close apartments available
 - consumer income
 - what happens when one of the above changes?

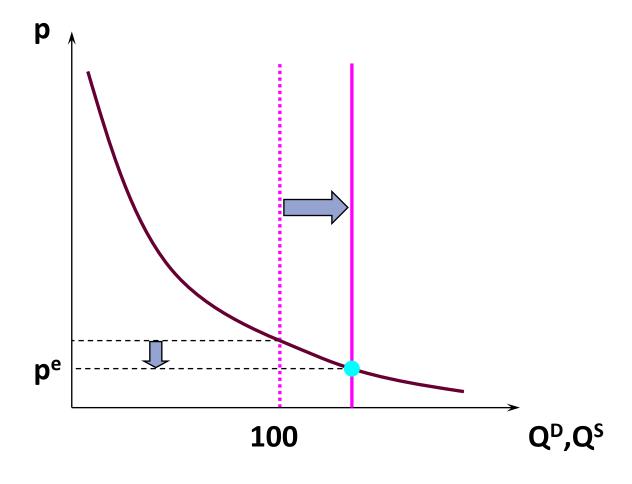
price of distant apartments increases



number of close apartments increases



number of close apartments increases



consumer income increases

