
Demand and supply

Topic 2

Agenda

- Basics of demand
- Closer look at demand
- Basics of supply
- Closer look at supply

- Part 1: Basics of demand

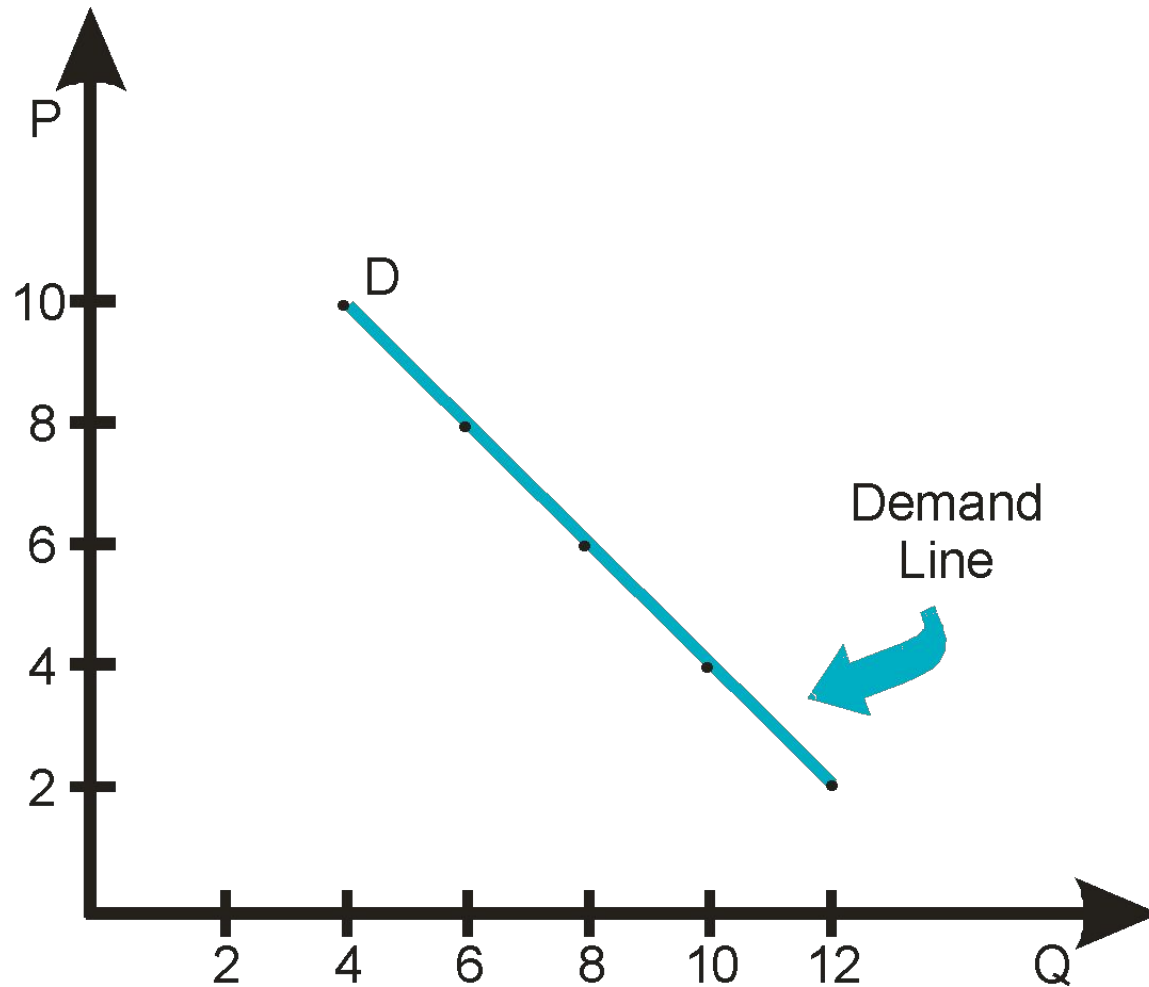
The law of demand

- **THE LAW OF DEMAND** states that, in general, other things being constant, the lower the price of a good, the greater the quantity of that good buyers will purchase over a given period (and conversely).
- More precisely: other things remaining the same, the higher the price of a good, the smaller is the quantity demanded; and the lower the price of a good, the greater is the quantity demanded.

Demand schedule: an example

Price per unit (\$)	Quantity demanded (units per week)
2	12
4	10
6	8
8	6
10	4

Demand curve: an example



The law of demand – things to remember

- Ceteris paribus qualification
- Shift factors of demand
- Shift along demand curve and shift of demand curve
- Quantity demanded vs. demand
- Effective demand vs. potential demand
- Time dimension

Ceteris paribus qualification

- Recall Alfred Marshall's concept of „pound”.

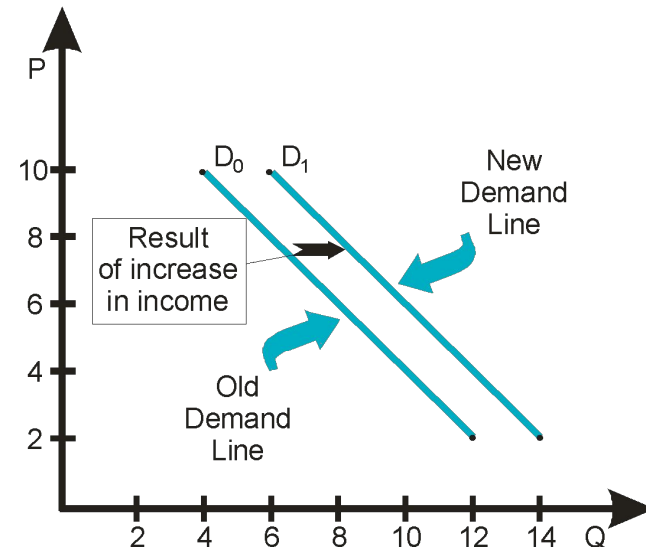
Shift factors of demand

- **SHIFT FACTORS OF DEMAND** = the things held constant when plotting demand curve; factors influencing demand (other than price).
- Basic shift factors of demand:
 - income,
 - prices of other goods (substitutes and complements),
 - preferences.

Shift factors of demand: an example

- Let's suppose that buyers' income increases.
- At each price they will demand more.

Price	Quantity demanded	
	At lower income	At higher income
2	12	14
4	10	12
6	8	10
8	6	8
10	4	6



Quantity demanded vs. demand

- **QUANTITY DEMANDED** = amount of a good that buyers are **willing and able** to purchase **over a period at a certain price.**
- **DEMAND** = quantity of a good which buyers are **willing and able** to purchase **over a period at various prices.**

Effective demand vs. potential demand

- **WANTED \neq DEMANDED** in the sense we're using the term
- If you demand something, then you:
 - want it,
 - can afford it,
 - plan to buy it.
- **EFFECTIVE DEMAND** = consumers are willing and able to purchase
- **POTENTIAL DEMAND** = consumers are only willing to purchase

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- Part 2: Closer look at demand

The forces behind the law of demand

- **SUBSTITUTION EFFECT** of a good's rising price: when the price of a good rises, we will substitute other similar goods for it; the good is now more expensive in relation to other goods; we switch to alternatives.

Money price vs. relative price

- **MONEY PRICE** = the number of dollars that must be given up in exchange for a good.
- **RELATIVE PRICE** = the ratio of price of one good to price of another good.

The forces behind the law of demand (cont.)

- **INCOME EFFECT** of a good's rising price: when the price of a good rises, we find ourselves somewhat poorer than before; we are not able to afford to buy so much of the good with our money as earlier; **purchasing power** of our income falls.

Nominal income vs. real income

- **NOMINAL INCOME** = income measured in terms of an amount of money (the number of dollars)
- **REAL INCOME** = income measured in terms of the quantity of goods the money can buy; in other words, it reflects **PURCHASING POWER** of the money

Relationship between income and demand

- From the point of view of the effect changing income has on demand, goods can be categorized into:
 - **normal (superior) goods,**
 - **inferior goods.**
- **INFERIOR GOODS:** low-quality, often second-hand goods that have more expensive substitutes.
- The higher buyer's income, the lower is demand for inferior goods (because we substitute better goods for them).

Relationship between prices of other goods and demand

- From the point of view of the effect prices of other goods have on demand, the goods can be divided into:
 - **substitutes,**
 - **complements.**
- **SUBSTITUTES** = alternatives, similar goods that can satisfy (better or worse) the same need.
- **COMPLEMENTS** = goods used together in order to satisfy a need.

Shift factors of demand: recapitulation

■ **Outward shift of demand curve can be caused by:**

- ❑ increase in income (normal goods),
- ❑ decrease in income (inferior goods),
- ❑ increase in prices of substitutes,
- ❑ decrease in prices of complements,
- ❑ change in buyers' tastes, preferences and habits to the advantage of a good.

■ **Inward shift of demand curve can be caused by:**

- ❑ decrease in income (normal goods),
- ❑ increase in income (inferior goods),
- ❑ decrease in prices of substitutes,
- ❑ increase in prices of complements,
- ❑ change in buyers' tastes, preferences and habits to the detriment of a good.

- Part 3: Basics of supply

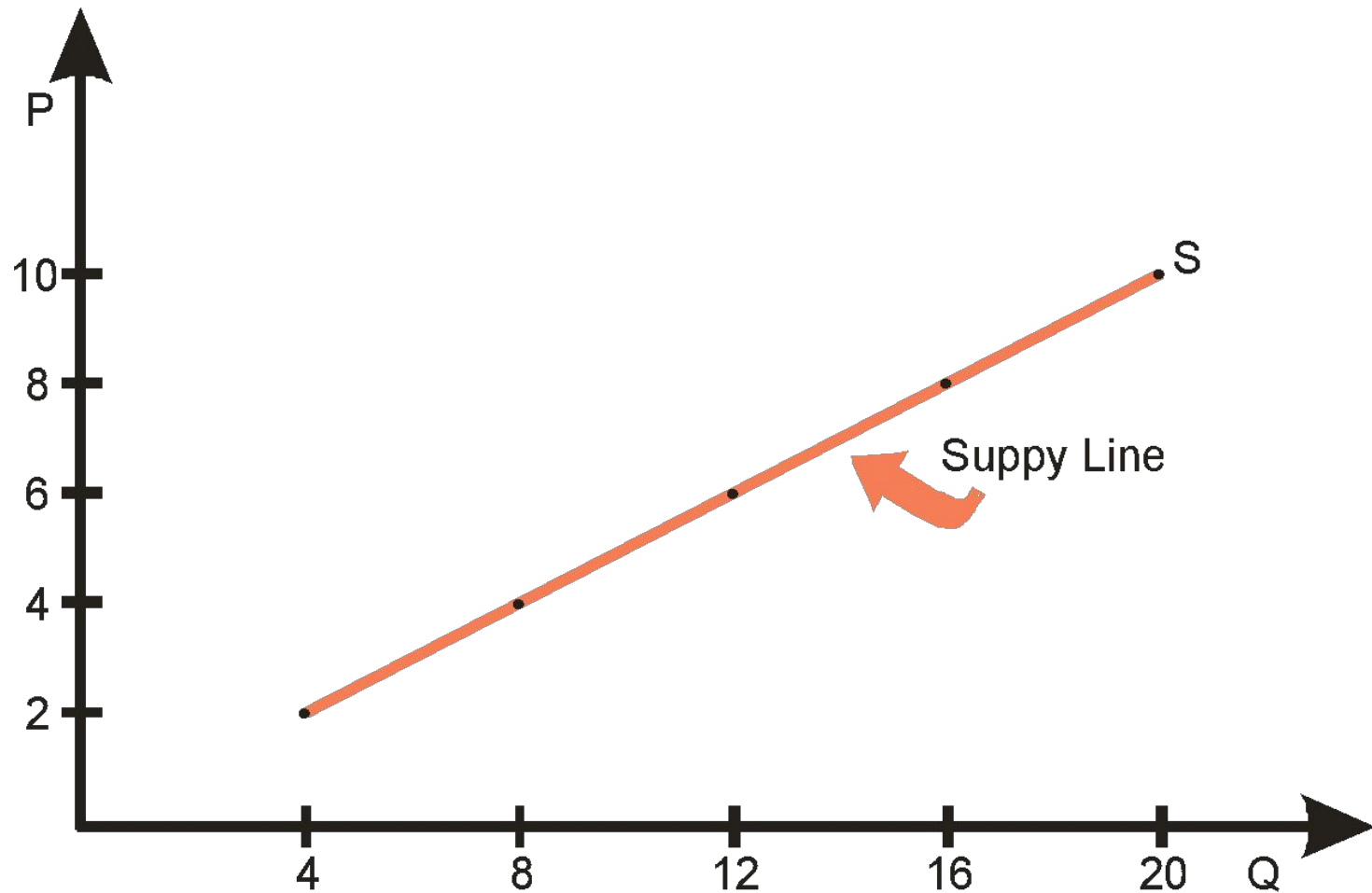
The law of supply

- **THE LAW OF SUPPLY** states that, in general, other things being constant, the lower the price of a good, the smaller the quantity of that good sellers will make available in the market over a given period (and conversely).

Supply schedule: an example

Price per unit (\$)	Quantity supplied (units per week)
2	4
4	8
6	12
8	16
10	20

Supply curve: an example



The law of supply – things to remember

- Ceteris paribus qualification
- Shift factors of supply
- Shift along supply curve and shift of supply curve
- Quantity supplied vs. supply
- Effective supply vs. potential supply
- Time dimension

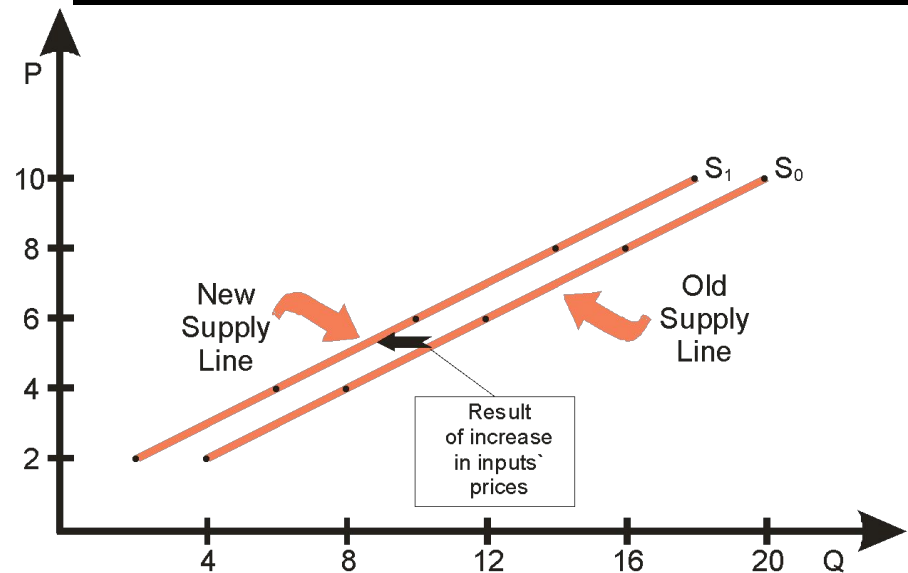
Shift factors of supply

- **SHIFT FACTORS OF SUPPLY** = the things held constant when plotting supply curve; factors influencing supply (other than price).
- Basic shift factors of supply:
 - production costs (prices of inputs),
 - changes in technology,
 - the state of nature.

Shift factors of supply: an example

- Let's suppose that prices of inputs increase.
- At each price sellers will supply less.

Price	Quantity supplied	
	At lower prices of inputs	At higher prices of inputs
2	4	2
4	8	6
6	12	10
8	16	14
10	20	18



Quantity supplied vs. supply

- **QUANTITY SUPPLIED** = amount of a good that sellers are **willing and able** to deliver in the market **over a period** at a **certain price**.
- **SUPPLY** = quantity of a good which sellers are **willing and able** to deliver in the market **over a period** at **various prices**.

Effective supply vs. potential supply

- Having the resources and technology is not enough to supply a good.
- If a firm supplies a good or service, the firm:
 - has the resources and technology to produce it,
 - can profit from producing it,
 - plans to produce it and sell it.

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- Part 4: closer look at supply

Forces behind the law of supply

- The law of diminishing returns implies that producing every additional unit of a good becomes more and more expensive. To offer more goods, firms must be motivated by rising price.
- In other words, it is never worth producing a good if the price received for the good does not at least cover the marginal cost of producing it.

Shift factors of supply: recapitulation

- Outward shift of supply curve can be caused by:
 - decrease in prices of inputs,
 - improvements in technology,
 - advantageous state of nature.
- Inward shift of supply curve can be caused by:
 - increase in prices of inputs,
 - deteriorations in technology,
 - disadvantageous state of nature.