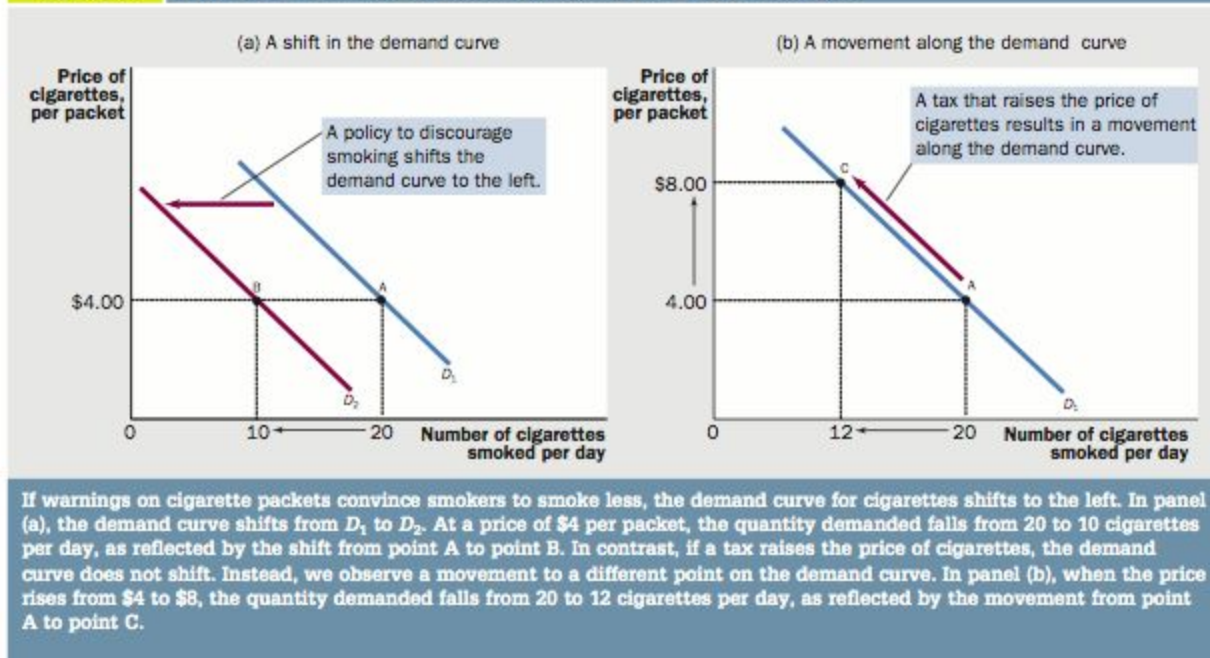


Supply and Demand

Demand

- Law of Demand: when the price of a good increases/decreases, the quantity demanded of a good decreases/increases - inverse relationship
- Other factors (other than price) that affect demand (cause a shift in the demand curve:
 - **1. Price of related goods in consumptions**
 - i) Substitutes: two goods that can be **used in place of each other**
 - e.g. butter and margarine; DVD rentals and movie tickets
 - For any two goods, if an increase/decrease in price of one good causes an increase/decrease in demand for others - they are substitutes
 - ii) Complements: two goods that are **used together**
 - e.g. Petrol and cars; cameras and batteries; computers and software
 - For any two goods, if an increase/decrease in price of one good causes a decrease/increase in demand for the other good - they are complements
 - **2. Income**
 - i) Normal good - increase/decrease in income causes an increase/decrease in demand
 - An increase in income means you have more to spend on most goods
 - ii) Inferior good - increase/decrease in income causes a decrease/increase in demand
 - For some goods, like bus rides, as your income increases you are more likely to use a car or take taxis and less likely to take the bus
 - **3. Price expectations**
 - An increase/decrease in expected price causes an increase/decrease in demand
 - **4. Tastes and preferences**
 - An increase/decrease in preference for a good causes demand to increase/decrease
 - **5. Number of buyers**
 - An increase/decrease in the number of buyers in a market causes demand to increase/decrease

Figure 4.4 Shifts in the demand curve versus movements along the demand curve



→ A change in the good's price represents a movement along the demand curve, whereas a change in one of the other variables shifts the demand curve

Supply

- Law of Supply: when price of good increases/decreases, the quantity supplied of a good increases/decreases
- There are many factors that determine selling plans:
 - The price of the good
 - Expected future prices
 - Price of inputs
 - Prices of related goods in production
 - Change in technology/efficiency
 - Random events, such as weather
 - e.g. Weather for the crops for farmers
- Factors that affect supply/cause a shift in the supply curve:
 - **1. Price of inputs (e.g. labour and materials)**
 - Increase in price inputs - increase cost of production - decrease supply
 - Decrease in price inputs - decrease in cost of production - increase supply
 - **2. Prices of related goods in production**
 - i) Substitutes in production: substitutes in production are two goods that can be produced in place of one another using the same factors of production

- Like firms producing dishwashers and washing machines or farms producing maize or wheat
 - e.g. As the price of dishwashers increases relative to washing machines, the firms likely to supply less washing machines
 - For any two goods, if an increase/decrease in price of one good causes a decrease/increase in supply of the other good - they are substitutes in production
 - ii) Complements in production: complements in production are two goods that are produced **together** using the **same** factors of production
 - Like firms producing petrol and lubricants
 - e.g. As the price of petrol increases the firm is likely to supply more lubricants
 - For any two goods, if an increase/decrease in price of one good causes an increase/decrease in supply of the other good - they are complements in production
 - **3. Changes in technology/efficiency**: introduction of new technology that increases/decreases efficiency of production - increase/decrease in supply
 - **4. Price expectations**: increase/decrease in expected price tomorrow - decrease/increase in supply today
 - **5. Random events**:
 - e.g. weather such as drought, earthquakes, etc - cause a decrease in supply
 - **6. Number of sellers**: increase/decrease in the number of sellers in a market causes supply to increase/decrease
- A change in the good's price represents a movement along the supply curve, whereas a change in one of the variables shifts the supply curve

Market equilibrium

- Law of supply and demand: the price of any good adjusts to bring the supply and demand for that good into balance
 - Excess demand occurs in a market when there is a **shortage** of a good
 - Excess supply occurs in a market when there is a **surplus** of a good

Comparative static analysis

- Analysis of changes in supply and demand

Elasticity

Elasticity is a measure of how much buyers and sellers respond to changes in market conditions

- Demand:
 - Price elasticity of demand