



Glossary

A

ability-to-pay principle the idea that taxes should be levied on a person according to how well that person can shoulder the burden

absolute advantage the ability to produce a good using fewer inputs than another producer

accounting profit total revenue minus total explicit cost

adverse selection the tendency for the mix of unobserved attributes to become undesirable from the standpoint of an uninformed party

agent a person who is performing an act for another person, called the principal

aggregate-demand curve a curve that shows the quantity of goods and services that households, firms, the government, and customers abroad want to buy at each price level

aggregate-supply curve a curve that shows the quantity of goods and services that firms choose to produce and sell at each price level

appreciation an increase in the value of a currency as measured by the amount of foreign currency it can buy

Arrow's impossibility theorem a mathematical result showing that, under certain assumed conditions, there is no scheme for aggregating individual preferences into a valid set of social preferences

automatic stabilizers changes in fiscal policy that stimulate aggregate demand when the economy goes into a recession without policymakers having to take any deliberate action

average fixed cost fixed cost divided by the quantity of output

average revenue total revenue divided by the quantity sold

average tax rate total taxes paid divided by total income

average total cost total cost divided by the quantity of output

average variable cost variable cost divided by the quantity of output

B

balanced trade a situation in which exports equal imports

bank capital the resources a bank's owners have put into the institution

behavioral economics the subfield of economics that integrates the insights of psychology

benefits principle the idea that people should pay taxes based on the benefits they receive from government services

bond a certificate of indebtedness

budget constraint the limit on the consumption bundles that a consumer can afford

budget deficit a shortfall of tax revenue from government spending

budget surplus an excess of tax revenue over government spending

business cycle fluctuations in economic activity, such as employment and production

C

capital the equipment and structures used to produce goods and services

capital flight a large and sudden reduction in the demand for assets located in a country

capital requirement a government regulation specifying a minimum amount of bank capital

cartel a group of firms acting in unison

catch-up effect the property whereby countries that start off poor tend to grow more rapidly than countries that start off rich

central bank an institution designed to oversee the banking system and regulate the quantity of money in the economy

circular-flow diagram a visual model of the economy that shows how dollars flow through markets among households and firms

classical dichotomy the theoretical separation of nominal and real variables

closed economy an economy that does not interact with other economies in the world

club goods goods that are excludable but not rival in consumption

Coase theorem the proposition that if private parties can bargain without cost over the allocation of resources, they can solve the problem of externalities on their own

collective bargaining the process by which unions and firms agree on the terms of employment

collusion an agreement among firms in a market about quantities to produce or prices to charge

commodity money money that takes the form of a commodity with intrinsic value

common resources goods that are rival in consumption but not excludable

comparative advantage the ability to produce a good at a lower opportunity cost than another producer

compensating differential a difference in wages that arises to offset the nonmonetary characteristics of different jobs

competitive market a market with many buyers and sellers trading identical products so that each buyer and seller is a price taker

complements two goods for which an increase in the price of one leads to a decrease in the demand for the other

compounding the accumulation of a sum of money in, say, a bank account, where the interest earned remains in the account to earn additional interest in the future

Condorcet paradox the failure of majority rule to produce transitive preferences for society

constant returns to scale the property whereby long-run average total cost stays the same as the quantity of output changes

consumer price index (CPI) a measure of the overall cost of the goods and services bought by a typical consumer

consumer surplus the amount a buyer is willing to pay for a good minus the amount the buyer actually pays for it

consumption spending by households on goods and services, with the exception of purchases of new housing

core CPI a measure of the overall cost of consumer goods and services excluding food and energy

corrective tax a tax designed to induce private decision makers to take into account the social costs that arise from a negative externality

cost the value of everything a seller must give up to produce a good

cost-benefit analysis a study that compares the costs and benefits to society of providing a public good

cross-price elasticity of demand a measure of how much the quantity demanded of one good responds to a change in the price of another good, computed as the percentage change in quantity demanded of the first good divided by the percentage change in price of the second good

crowding out a decrease in investment that results from government borrowing

crowding-out effect the offset in aggregate demand that results when expansionary fiscal policy raises the interest rate and thereby reduces investment spending

currency the paper bills and coins in the hands of the public

cyclical unemployment the deviation of unemployment from its natural rate

D

deadweight loss the fall in total surplus that results from a market distortion, such as a tax

demand curve a graph of the relationship between the price of a good and the quantity demanded

demand deposits balances in bank accounts that depositors can access on demand by writing a check

demand schedule a table that shows the relationship between the price of a good and the quantity demanded

depreciation a decrease in the value of a currency as measured by the amount of foreign currency it can buy

depression a severe recession

diminishing marginal product the property whereby the marginal product of an input declines as the quantity of the input increases

diminishing returns the property whereby the benefit from an extra unit of an input declines as the quantity of the input increases

discount rate the interest rate on the loans that the Fed makes to banks

discouraged workers individuals who would like to work but have given up looking for a job

discrimination the offering of different opportunities to similar individuals who differ only by race, ethnic group, sex, age, or other personal characteristics

diseconomies of scale the property whereby long-run average total cost rises as the quantity of output increases

diversification the reduction of risk achieved by replacing a single risk with a large number of smaller, unrelated risks

dominant strategy a strategy that is best for a player in a game regardless of the strategies chosen by the other players

E

economic profit total revenue minus total cost, including both explicit and implicit costs

economics the study of how society manages its scarce resources

economies of scale the property whereby long-run average total cost falls as the quantity of output increases

efficiency the property of a resource allocation of maximizing the total surplus received by all members of society

efficiency wages above-equilibrium wages paid by firms to increase worker productivity

efficient markets hypothesis the theory that asset prices reflect all publicly available information about the value of an asset

efficient scale the quantity of output that minimizes average total cost

elasticity a measure of the responsiveness of quantity demanded or quantity supplied to a change in one of its determinants

equality the property of distributing economic prosperity uniformly among the members of society

equilibrium a situation in which the market price has reached the level at which quantity supplied equals quantity demanded

equilibrium price the price that balances quantity supplied and quantity demanded

equilibrium quantity the quantity supplied and the quantity demanded at the equilibrium price

excludability the property of a good whereby a person can be prevented from using it

explicit costs input costs that require an outlay of money by the firm

exports goods and services that are produced domestically and sold abroad

externality the uncompensated impact of one person's actions on the well-being of a bystander

F

factors of production the inputs used to produce goods and services

federal funds rate the interest rate at which banks make overnight loans to one another

Federal Reserve (Fed) the central bank of the United States

fiat money money without intrinsic value that is used as money by government decree

finance the field that studies how people make decisions regarding the allocation of resources over time and the handling of risk

financial intermediaries financial institutions through which savers can indirectly provide funds to borrowers

financial markets financial institutions through which savers can directly provide funds to borrowers

financial system the group of institutions in the economy that help to match one person's saving with another person's investment

firm-specific risk risk that affects only a single company

fiscal policy the setting of the level of government spending and taxation by government policymakers

Fisher effect the one-for-one adjustment of the nominal interest rate to the inflation rate

fixed costs costs that do not vary with the quantity of output produced

fractional-reserve banking a banking system in which banks hold only a fraction of deposits as reserves

free rider a person who receives the benefit of a good but avoids paying for it

frictional unemployment unemployment that results because it takes time for workers to search for the jobs that best suit their tastes and skills

fundamental analysis the study of a company's accounting statements and future prospects to determine its value

future value the amount of money in the future that an amount of money today will yield, given prevailing interest rates

G

game theory the study of how people behave in strategic situations

GDP deflator a measure of the price level calculated as the ratio of nominal GDP to real GDP times 100

Giffen good a good for which an increase in the price raises the quantity demanded

government purchases spending on goods and services by local, state, and federal governments

gross domestic product (GDP) the market value of all final goods and services produced within a country in a given period of time

H

horizontal equity the idea that taxpayers with similar abilities to pay taxes should pay the same amount

human capital the accumulation of investments in people, such as education and on-the-job training

implicit costs input costs that do not require an outlay of money by the firm

imports goods and services that are produced abroad and sold domestically

incentive something that induces a person to act

income effect the change in consumption that results when a price change moves the consumer to a higher or lower indifference curve

income elasticity of demand a measure of how much the quantity demanded of a good responds to a change in consumers' income, computed as the percentage change in quantity demanded divided by the percentage change in income

indexation the automatic correction by law or contract of a dollar amount for the effects of inflation

indifference curve a curve that shows consumption bundles that give the consumer the same level of satisfaction

inferior good a good for which, other things being equal, an increase in income leads to a decrease in demand

inflation an increase in the overall level of prices in the economy

inflation rate the percentage change in the price index from the preceding period

inflation tax the revenue the government raises by creating money

informational efficiency the description of asset prices that rationally reflect all available information

in-kind transfers transfers to the poor given in the form of goods and services rather than cash

internalizing the externality altering incentives so that people take into account the external effects of their actions

investment spending on business capital, residential capital, and inventories

J

job search the process by which workers find appropriate jobs given their tastes and skills

L

labor force the total number of workers, including both the employed and the unemployed

labor-force participation rate the percentage of the adult population that is in the labor force

law of demand the claim that, other things being equal, the quantity demanded of a good falls when the price of the good rises

law of supply the claim that, other things being equal, the quantity supplied of a good rises when the price of the good rises

law of supply and demand the claim that the price of any good adjusts to bring the quantity supplied and the quantity demanded for that good into balance

leverage the use of borrowed money to supplement existing funds for purposes of investment

leverage ratio the ratio of assets to bank capital

liberalism the political philosophy according to which the government should choose policies deemed just, as evaluated by an impartial observer behind a “veil of ignorance”

libertarianism the political philosophy according to which the government should punish crimes and enforce voluntary agreements but not redistribute income

life cycle the regular pattern of income variation over a person’s life

liquidity the ease with which an asset can be converted into the economy’s medium of exchange

lump-sum tax a tax that is the same amount for every person

M

macroeconomics the study of economy-wide phenomena, including inflation, unemployment, and economic growth

marginal change a small incremental adjustment to a plan of action

marginal cost the increase in total cost that arises from an extra unit of production

marginal product the increase in output that arises from an additional unit of input

marginal product of labor the increase in the amount of output from an additional unit of labor

marginal rate of substitution the rate at which a consumer is willing to trade one good for another

marginal revenue the change in total revenue from an additional unit sold

marginal tax rate the amount by which taxes increase from an additional dollar of income

market a group of buyers and sellers of a particular good or service

market economy an economy that allocates resources through the decentralized decisions of many firms and households as they interact in markets for goods and services

market failure a situation in which a market left on its own fails to allocate resources efficiently

market for loanable funds the market in which those who want to save supply funds and those who want to borrow to invest demand funds

market power the ability of a single economic actor (or small group of actors) to have a substantial influence on market prices

market risk risk that affects all companies in the stock market

maximin criterion the claim that the government should aim to maximize the well-being of the worst-off person in society

median voter theorem a mathematical result showing that if voters are choosing a point along a line and each voter wants the point closest to his most preferred point, then majority rule will pick the most preferred point of the median voter

medium of exchange an item that buyers give to sellers when they want to purchase goods and services

menu costs the costs of changing prices

microeconomics the study of how households and firms make decisions and how they interact in markets

model of aggregate demand and aggregate supply the model that most economists use to explain short-run fluctuations in economic activity around its long-run trend

monetary neutrality the proposition that changes in the money supply do not affect real variables

monetary policy the setting of the money supply by policymakers in the central bank

money the set of assets in an economy that people regularly use to buy goods and services from other people

money multiplier the amount of money the banking system generates with each dollar of reserves

money supply the quantity of money available in the economy

monopolistic competition a market structure in which many firms sell products that are similar but not identical

monopoly a firm that is the sole seller of a product without any close substitutes

moral hazard the tendency of a person who is imperfectly monitored to engage in dishonest or otherwise undesirable behavior

multiplier effect the additional shifts in aggregate demand that result when expansionary fiscal policy increases income and thereby increases consumer spending

mutual fund an institution that sells shares to the public and uses the proceeds to buy a portfolio of stocks and bonds

N

Nash equilibrium a situation in which economic actors interacting with one another each choose their best strategy given the strategies that all the other actors have chosen

national saving (saving) the total income in the economy that remains after paying for consumption and government purchases

natural level of output the production of goods and services that an economy achieves in the long run when unemployment is at its normal rate

natural monopoly a type of monopoly that arises because a single firm can supply a good or service to an entire market at a lower cost than could two or more firms

natural-rate hypothesis the claim that unemployment eventually returns to its normal, or natural, rate, regardless of the rate of inflation

natural rate of unemployment the normal rate of unemployment around which the unemployment rate fluctuates

natural resources the inputs into the production of goods and services that are provided by nature, such as land, rivers, and mineral deposits

negative income tax a tax system that collects revenue from high-income households and gives subsidies to low-income households

net capital outflow the purchase of foreign assets by domestic residents minus the purchase of domestic assets by foreigners

net exports spending on domestically produced goods by foreigners (exports) minus spending on foreign goods by domestic residents (imports)

nominal exchange rate the rate at which a person can trade the currency of one country for the currency of another

nominal GDP the production of goods and services valued at current prices

nominal interest rate the interest rate as usually reported without a correction for the effects of inflation

nominal variables variables measured in monetary units

normal good a good for which, other things being equal, an increase in income leads to an increase in demand

normative statements claims that attempt to prescribe how the world should be

O

oligopoly a market structure in which only a few sellers offer similar or identical products

open economy an economy that interacts freely with other economies around the world

open-market operations the purchase and sale of U.S. government bonds by the Fed

opportunity cost whatever must be given up to obtain some item

P

perfect complements two goods with right-angle indifference curves

perfect substitutes two goods with straight line indifference curves

permanent income a person's normal income

Phillips curve a curve that shows the short-run trade-off between inflation and unemployment

physical capital the stock of equipment and structures that are used to produce goods and services

political economy the study of government using the analytic methods of economics

positive statements claims that attempt to describe the world as it is

poverty line an absolute level of income set by the federal government for each family size below which a family is deemed to be in poverty

poverty rate the percentage of the population whose family income falls below an absolute level called the poverty line

present value the amount of money today that would be needed, using prevailing interest rates, to produce a given future amount of money

price ceiling a legal maximum on the price at which a good can be sold

price discrimination the business practice of selling the same good at different prices to different customers

price elasticity of demand a measure of how much the quantity demanded of a good responds to a change in the price of that good, computed as the percentage change in quantity demanded divided by the percentage change in price

price elasticity of supply a measure of how much the quantity supplied of a good responds to a change in the price of that good, computed as the percentage change in quantity supplied divided by the percentage change in price

price floor a legal minimum on the price at which a good can be sold

principal a person for whom another person, called the agent, is performing some act

prisoners' dilemma a particular "game" between two captured prisoners that illustrates why cooperation is difficult to maintain even when it is mutually beneficial

private goods goods that are both excludable and rival in consumption

private saving the income that households have left after paying for taxes and consumption

producer price index a measure of the cost of a basket of goods and services bought by firms

producer surplus the amount a seller is paid for a good minus the seller's cost of providing it

production function the relationship between the quantity of inputs used to make a good and the quantity of output of that good

production possibilities frontier a graph that shows the combinations of output that the economy can possibly produce given the available factors of production and the available production technology

productivity the quantity of goods and services produced from each unit of labor input

profit total revenue minus total cost

progressive tax a tax for which high-income taxpayers pay a larger fraction of their income than do low-income taxpayers

property rights the ability of an individual to own and exercise control over scarce resources

proportional tax a tax for which high-income and low-income taxpayers pay the same fraction of income

public goods goods that are neither excludable nor rival in consumption

public saving the tax revenue that the government has left after paying for its spending

purchasing-power parity a theory of exchange rates whereby a unit of any given currency should be able to buy the same quantity of goods in all countries

Q

quantity demanded the amount of a good that buyers are willing and able to purchase

quantity equation the equation $M \times V = P \times Y$, which relates the quantity of money, the velocity of money, and the dollar value of the economy's output of goods and services

quantity supplied the amount of a good that sellers are willing and able to sell

quantity theory of money a theory asserting that the quantity of money available determines the price level and that the growth rate in the quantity of money available determines the inflation rate

R

random walk the path of a variable whose changes are impossible to predict

rational expectations the theory that people optimally use all the information they have, including information about government policies, when forecasting the future

rational people people who systematically and purposefully do the best they can to achieve their objectives

real exchange rate the rate at which a person can trade the goods and services of one country for the goods and services of another

real GDP the production of goods and services valued at constant prices

real interest rate the interest rate corrected for the effects of inflation

real variables variables measured in physical units

recession a period of declining real incomes and rising unemployment

regressive tax a tax for which high-income taxpayers pay a smaller fraction of their income than do low-income taxpayers

reserve ratio the fraction of deposits that banks hold as reserves

reserve requirements regulations on the minimum amount of reserves that banks must hold against deposits

reserves deposits that banks have received but have not loaned out

risk aversion a dislike of uncertainty

rivalry in consumption the property of a good whereby one person's use diminishes other people's use

S

sacrifice ratio the number of percentage points of annual output lost in the process of reducing inflation by 1 percentage point

scarcity the limited nature of society's resources

screening an action taken by an uninformed party to induce an informed party to reveal information

shoeleather costs the resources wasted when inflation encourages people to reduce their money holdings

shortage a situation in which quantity demanded is greater than quantity supplied

signaling an action taken by an informed party to reveal private information to an uninformed party

social insurance government policy aimed at protecting people against the risk of adverse events

stagflation a period of falling output and rising prices

stock a claim to partial ownership in a firm

store of value an item that people can use to transfer purchasing power from the present to the future

strike the organized withdrawal of labor from a firm by a union

structural unemployment unemployment that results because the number of jobs available in some labor markets is insufficient to provide a job for everyone who wants one

substitutes two goods for which an increase in the price of one leads to an increase in the demand for the other

substitution effect the change in consumption that results when a price change moves the consumer along a given indifference curve to a point with a new marginal rate of substitution

sunk cost a cost that has already been committed and cannot be recovered

supply curve a graph of the relationship between the price of a good and the quantity supplied

supply schedule a table that shows the relationship between the price of a good and the quantity supplied

supply shock an event that directly alters firms' costs and prices, shifting the economy's aggregate-supply curve and thus the Phillips curve

surplus a situation in which quantity supplied is greater than quantity demanded

T

tariff a tax on goods produced abroad and sold domestically

tax incidence the manner in which the burden of a tax is shared among participants in a market

technological knowledge society's understanding of the best ways to produce goods and services

theory of liquidity preference Keynes's theory that the interest rate adjusts to bring money supply and money demand into balance

total cost the market value of the inputs a firm uses in production

total revenue the amount paid by buyers and received by sellers of a good, computed as the price of the good times the quantity sold

trade balance the value of a nation's exports minus the value of its imports; also called net exports

trade deficit an excess of imports over exports

trade policy a government policy that directly influences the quantity of goods and services that a country imports or exports

trade surplus an excess of exports over imports

Tragedy of the Commons a parable that illustrates why common resources are used more than is desirable from the standpoint of society as a whole

transaction costs the costs that parties incur during the process of agreeing to and following through on a bargain

U

unemployment insurance a government program that partially protects workers' incomes when they become unemployed

unemployment rate the percentage of the labor force that is unemployed

union a worker association that bargains with employers over wages, benefits, and working conditions

unit of account the yardstick people use to post prices and record debts

utilitarianism the political philosophy according to which the government should choose policies to maximize the total utility of everyone in society

utility a measure of happiness or satisfaction

V

value of the marginal product the marginal product of an input times the price of the output

variable costs costs that vary with the quantity of output produced

velocity of money the rate at which money changes hands

vertical equity the idea that taxpayers with a greater ability to pay taxes should pay larger amounts

W

welfare government programs that supplement the incomes of the needy

welfare economics the study of how the allocation of resources affects economic well-being

willingness to pay the maximum amount that a buyer will pay for a good

world price the price of a good that prevails in the world market for that good