Issues in Economics Today 8th Edition Guell Solutions Manual

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Chapter 2 Supply and Demand

Learning Objectives

After reading this chapter you should be able to:

LO1 Illustrate and explain the economic model of supply and demand.

LO2 Define many terms, including supply, demand, quantity supplied, and quantity demanded.

LO3 Utilize the intuition behind the supply and demand relationships as well as the variables that can change these relationships to manipulate the supply and demand model.

Chapter Outline

- Supply and Demand Defined
- The Supply and Demand Model
- All about Demand
- All about Supply
- Determinants of Demand
- Determinants of Supply
- The Effect of Changes in Price Expectations on the Supply and Demand Model
- Kick It Up a Notch: Why the New Equilibrium?

Teaching Tip

Emphasize that this chapter is fundamental to nearly everything they will study in the course and that this is not a chapter they can fake.

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SUPPLY AND DEMAND DEFINED

Definitions

- **Supply and Demand**: the name of the most important model in all economics
- **Price**: the amount of money that must be paid for a unit of output
- Market: any mechanism by which buyers and sellers negotiate price
- **Output**: the good or service and/or the amount of it sold
- **Consumers**: those people in a market who are wanting to exchange money for goods or services
- **Producers**: those people in a market who are wanting to exchange goods or services for money
- **Equilibrium Price**: the price at which no consumers wish they could have purchased more goods at that price; no producers wish that they could have sold more
- Equilibrium Quantity: the amount of output exchanged at the equilibrium price

Quantity Demanded and Quantity Supplied

- **Quantity Demanded**: how much consumers are willing and able to buy at a particular price during a particular period of time
- **Quantity Supplied**: how much firms are willing and able to sell at a particular price during a particular period of time

Teaching Tip

Acknowledge the fact that popular press references to supply or demand often are references to quantity supplied or quantity demanded.

Markets

- Capitalism
 - Free markets in financial capital as well as goods and services
 - o Freedom to borrow or lend
 - Profits go to the owners of capital
- Communism
 - Capital and the profit that it generates is controlled by a government authority.
 - A government authority decides how the money is used.
- Socialism
 - A significant part of the profit generated by financial capital goes to government in the form of taxes.
 - A government uses the tax money to counter the wealth impacts of the distribution of profit.

Teaching Tip

It is worth noting that every industrialized country has an element of a social safety net and that most countries have (legal or illegal) private markets for goods and services. In that sense, there is a spectrum of economic systems and government intervention.

Heritage Index of Economic Freedom

- Free
 - o Hong Kong
 - o Singapore
 - o New Zealand
 - o Switzerland
 - o Australia
 - o Canada
 - Oppressed
 - o Eritrea
 - o Turkmenistan
 - o Zimbabwe
 - o Venezuela
 - o Cuba
 - o North Korea

Teaching Tips

- 1) Note that the index comes from the Heritage Foundation and the Wall Street Journal. Refer to their political bent.
- 2) Note that under President Obama, the United States fell off the "free" list and moved onto the "mostly free" list. This could also be a sign of politically motivated measurement.
- 3) Use this as an example of the difference between normative and positive analysis.
- 4) Let students discuss whether this appears to be an objectively derived set of lists. Is it a normative list? Note the use of the word "free." Is that not normative?

The Scientific Method and Ceteris Paribus

• Scientists

- o conduct experiments in laboratories.
- o use replication and verification to ensure the accuracy of their conclusions.
- Social Scientists
 - o cannot experiment on their subjects.
 - must use models and look at the effects of individual variables within those models.
- Economists
 - o hold variables constant within models to examine the effect of other variables.
 - use the Latin phrase *ceteris paribus* which means "holding other things equal" to identify this is the case.

Teaching Tips

- 1) Discuss how difficult it is to conduct controlled experiments in economics. You can cite, for instance, a Rand Corporation insurance study (from the 1970s) where people were given different health insurance plans to see how they would react (i.e. consuming more, seeing the doctor more).
- 2) Note for students that a how field of behavioral economics has developed in which experiments are conducted to test basic theories of human choice.
- 3) Let students discuss the morality of experiments such as this.

Demand and Supply

- **Demand** is the relationship between price and quantity demanded, ceteris paribus. •
- **Supply** is the relationship between price and quantity supplied, ceteris paribus. •

THE SUPPLY AND DEMAND MODEL

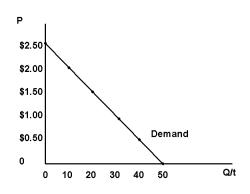
The Demand Schedule

The Demand Schedule presents, in tabular form, the price and quantity • demanded for a good.

Table 2.1 Demand schedule.			
Price	Individual Q_D	Q _D for 10,000*	
\$0.00	5	50,000	
\$0.50	4	40,000	
\$1.00	3	30,000	
\$1.50	2	20,000	
\$2.00	1	10,000	
\$2.50	0	0	

*This is ceteris paribus at work, holding the number and type of people constant.

The Demand Curve



Drawing Tip *Plot each point individually from the* demand schedule.

Page 4

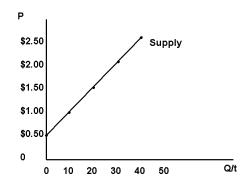
The Supply Schedule

• The **Supply Schedule** presents, in tabular form, the price and quantity supplied for a good.

Supply schedule.			
Price	Individual Q _s	Q _s for 10 Firms	
\$0.00	0	0	
\$0.50	0	0	
\$1.00	1,000	10,000	
\$1.50	2,000	20,000	
\$2.00	3,000	30,000	
\$2.50	4,000	40,000	

Table 2.2

The Supply Curve



Drawing Tip	
Plot each point individually from the	
supply schedule.	

Equilibrium, Shortages, and Surpluses

• Equilibrium

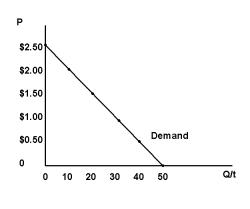
- is the point where the amount that consumers want to buy and the amount that firms want to sell are the same.
- This occurs where the supply curve and the demand curve cross.
- Shortage (Excess Demand): the condition where firms do not want to sell as many as consumers want to buy
- **Surplus (Excess Supply):** the condition where firms want to sell more than consumers want to buy

Price	Individual Quantity Demanded	Market Quantity Demanded	One Vendor's Quantity Supplied	Market Quantity Supplied	Shortage (Excess Demand)	Surplus (Excess Supply)
0	5	50,000	0	0	50,000	
\$0.50	4	40,000	0	0	40,000	
\$1.00	3	30,000	1,000	10,000	20,000	
\$1.50	2	20,000	2,000	20,000		
\$2.00	1	10,000	3,000	30,000		20,000
\$2.50	0	0	4,000	40,000		40,000

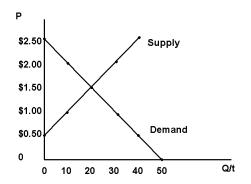
 Table 2.3

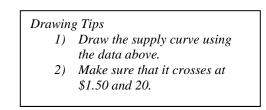
 Supply and demand schedules with shortage and surplus.

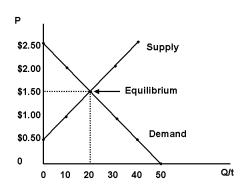
The Supply and Demand Model



Drawing Tip Draw the demand curve using the data above.







Drawing Tip Label the equilibrium.

ALL ABOUT DEMAND

• The Law of Demand

• The relationship between price and quantity demanded is a negative or inverse one.

Teaching Tip

Offer that the "LAW" is not really a law but an observation that almost always holds. In this way, it is similar to Chemistry's Ideal Gas Law PV=nRT. Just as the ideal gas law works (more or less) most of the time, it is not always precisely true for the non-ideal gases. Demand is not downward sloping for every good, for every person, in every circumstance. Demand by an individual with a broken bone, for immediate medical treatment, is likely vertical. They want their broken bone set.

Why Does the Law of Demand Make Sense?

- The Substitution Effect
 - o moves people toward the good that is now cheaper or away from the good that is now more expensive.
- **The Real Balances Effect**
 - occurs when a price increases it decreases your buying power causing you to buy 0 less.
- The Law of Diminishing Marginal Utility
 - o is the amount of additional happiness that you get from an additional unit of consumption falls with each additional unit.

Teaching Tips

- 1) Let students discuss their favorite brand of a product and have them specify what they do when that particular brand experiences a price increase.
- 2) Use an example of food or drink where the first unit of consumption increases happiness a great deal but the fourth, fifth or tenth, increases happiness a trivial amount. Good examples include pizza by the slice, donuts, or onion rings.
- 3) You may, or may not want to acknowledge that this concept requires a notion of cardinal utility that economists do not favor. If you do, you can also encourage them to become majors to learn why the assumption is wrong but the conclusions are not.
- 4) Let students discuss the "Law" by offering examples from their experience.

ALL ABOUT SUPPLY

The Law of Supply is the statement that there is a positive relationship between • price and quantity supplied.

Why Does the Law of Supply Make Sense?

- Because of Increasing Marginal Costs firms require higher prices to produce more output.
- Because many firms produce more than one good, an increase in the price of good ٠ A makes it (at the margin) more profitable so resources are diverted from good B to produce more of good A.

Teaching Tips

- 1) You may choose to use the "believe me, it works this way" approach to avoid the whole explanation of Marginal Cost and Marginal Revenue that follows. You can simply say we'll prove it in Chapters 5 and 6.
- 2) If you go forward with the explanation do not try to teach all of Chapters 5 and 6 right here. Just get to the punch line that marginal cost is increasing. Relatively quick example: Farmer has three fields (great, okay, rocky) that require differing levels of water and fertilizer (none, some, a lot). At high prices, all three fields will be used, at modest prices, only the best two, and at low prices, only the "great" one will be planted.
- 3) The second reason focuses on alternative outputs. In order for a corn/soybean farmer to plant corn, the extra cost of doing so has to be worth it (i.e. the price of corn has to be high enough).

DETERMINANTS OF DEMAND

- Taste
- Income
 - o Normal Goods
 - o Inferior Goods
- Price of Other Goods
 - o Complement
 - o Substitute
- Population of Potential Buyers
- Expected Price
- Excise Taxes
- Subsides

Teaching Tip

Go through each one of the determinants using your best, culturally-appropriate examples. I have had classes of mostly international students where the typical "peanut butter and jelly" example for complements just did not work. Ramen works well in a classroom of traditional students as an example of an "inferior" good. When dealing with taxes and subsidies, your examples must focus on those that go to the consumer (as those that go to the supplier will be discussed later).

Movements in the demand curve: increases in the values of the determinants.			
An Increase in	Causes Demand	Causes the Demand Curve to Move to the	
All Inclease In			
Taste	Increase	Right	
Income, Normal Good	Increase	Right	
Income, Inferior Good	Decrease	Left	
Price of Other Goods, Complement	Decrease	Left	
Price of Other Goods, Substitute	Increase	Right	
Population	Increase	Right	
Expected Future Price	Increase	Right	
Excise Tax	Decrease	Left	
Subsidy	Increase	Right	

Table 2.4

Movements in the demand curve: increases in the values of the determinants.

	Causes Demand	Causes the Demand Curve to Move to
A Decrease in	to	the
Taste	Decrease	Left
Income, Normal Good	Decrease	Left
Income, Inferior Good	Increase	Right
Price of Other Goods, Complement	Increase	Right
Price of Other Goods, Substitute	Decrease	Left
Population	Decrease	Left
Expected Future Price	Decrease	Left
Excise Tax	Increase	Right
Subsidy	Decrease	Increase

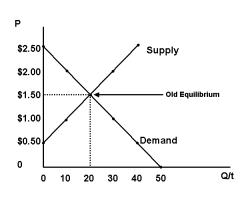
 Table 2.5

 Movements in the demand curve: decreases in the values of the determinants.

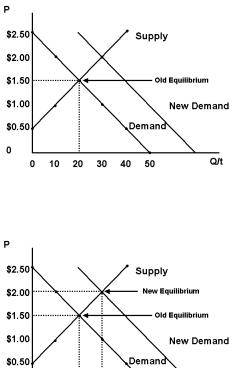
Teaching Tips

- 1) Emphasize that an increase in demand is a movement to the RIGHT and a decrease is a movement to the LEFT. While "Demand moves UP" is consistent with an increase in demand the same will not be true for supply. If you use the UP and DOWN labels, confusion will reign. Stick with RIGHT and LEFT.
- 2) The text refers to the figure number. Note that for the students.

The Effect of an Increase in Demand



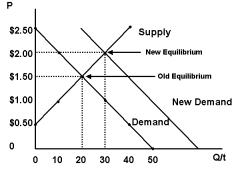
Drawing Tip Draw a supply and demand curve using the same data as before.



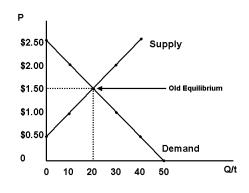
Drawing Tip Add a new demand curve further to the right.

Teaching Tips

- *1) Pick an example from the table.*
- 2) Pick a variable and ask students to offer whether an increase or a decrease in that variable will move demand to the right.

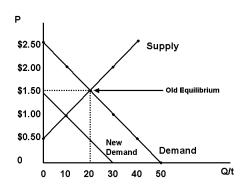


The Effect of a Decrease in Demand



Drawing Tip Show the new equilibrium.

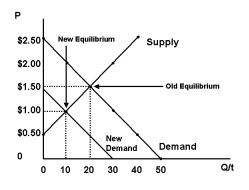
Drawing Tip Draw a supply and demand curve using the same data as before.



Drawing Tip Add a new demand curve further to the left.

Teaching Tips

- 1) Pick an example from the table.
- 2) Pick a variable and ask students to offer whether an increase or a decrease in that variable will move demand to the left.



Drawing Tip Show the new equilibrium.

DETERMINANTS OF SUPPLY

- Price of Inputs
- Technology
- Price of Other Potential Output
- Number of Sellers
- Expected Future Price
- Excise Taxes
- Subsidies

Table 2.6

Movements in the supply curve: increases in the values of the determinants.

	Causes Supply	Causes the Supply Curve
An Increase in	to	to Move to the
Price of Inputs	Decrease	Left
Technology	Increase	Right
Price of other Potential Outputs	Decrease	Left
Number of Sellers	Increase	Right
Expected Future Price	Decrease	Left
Excise Tax	Decrease	Left
Subsidy	Increase	Right

Table 2.7

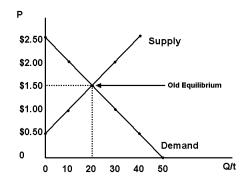
Movements in the supply curve: decreases in the values of the determinants.

A Decrease in	Causes Supply to	Causes the Supply Curve to Move to the
Price of Inputs	Increase	Right
Technology	Decrease	Left
Price of other Potential Outputs	Increase	Right
Number of Sellers	Decrease	Left
Expected Future Price	Increase	Right
Excise Tax	Increase	Right
Subsidy	Decrease	Left

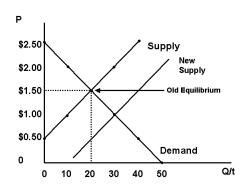
Teaching Tip

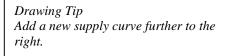
Have students notice that, just like demand, an increase in supply is a movement to the right and a decrease is a movement to the left.

An Increase in Supply



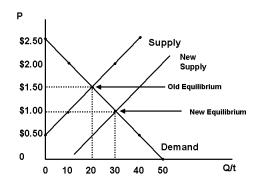
Drawing Tip Draw a supply and demand curve using the same data as before.





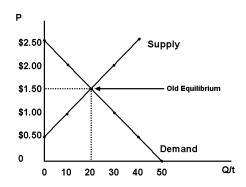
Teaching Tips

- *1) Pick an example from the table.*
- 2) Pick a variable and ask students to offer whether an increase or a decrease in that variable will move supply to the right.

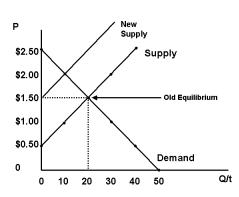


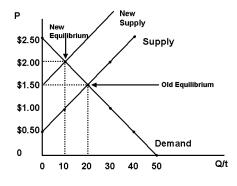
Drawing Tip Show the new equilibrium.

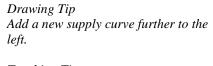
A Decrease in Supply



Drawing Tip Draw a supply and demand curve using the same data as before.

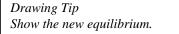






Teaching Tips

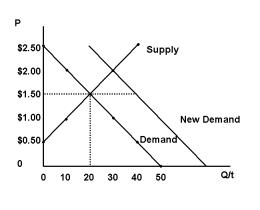
 Pick an example from the table.
 Pick a variable and ask students to offer whether an increase or a decrease in that variable will move supply to the left.

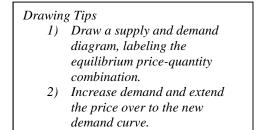


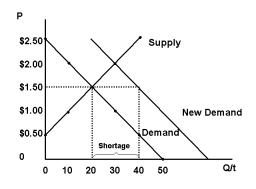
KICK IT UP A NOTCH: WHY THE NEW EQUILIBRIUM?

• If there is a change in supply or demand then, without a change in the price of the good, there will be a shortage or a surplus.

A Shortage Resulting from an Increase in Demand (If the price does not increase)

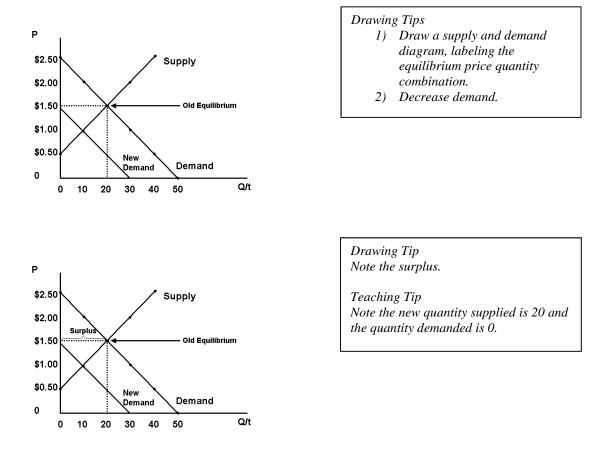




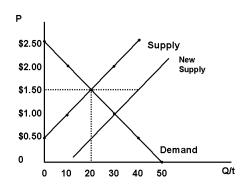


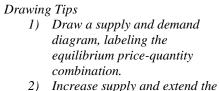
Drawing Tips 1) Come down from the point where the price line hits the new demand curve. 2) Note the shortage. Teaching Tip Note the new quantity demanded is 40 and the quantity supplied is only 20.

A Surplus Resulting from a Decrease in Demand (If the price does not fall)



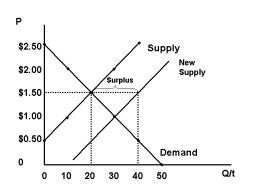
A Surplus Resulting from an Increase in Supply (If the price does not fall)

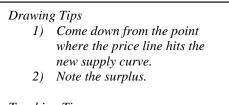




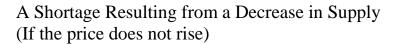
2) Increase supply and extend the price over to the new supply curve.

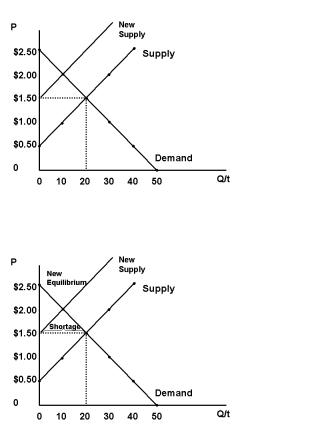
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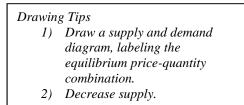




Teaching Tip Note the new quantity supplied is 40 and the quantity demanded is only 20.







Drawing Tip Note the shortage.

Teaching Tip Note the new quantity supplied is 0 and the quantity demanded is 20.

End of Chapter Questions

Quiz Yourself

1. The supply and demand model examines how prices and quantities are determined

- a) in markets.
- b) by governments.
- c) by churches.
- d) by monopolists.

Explanation: The supply and demand model assumes that there is a market where buyers and sellers get together to trade.

2. A change in the price of eggs will impact

- a) the demand for eggs.
- b) the supply of eggs.
- c) the quantity demanded and the quantity supplied of eggs but neither demand nor supply.
- d) both the supply and demand for eggs.

Explanation: Demand shows how much consumers want to buy at all prices. Demand is a relationship, whereas quantity demanded is a particular point in that relationship. Quantity supplied is how much firms are willing and able to sell at a particular price during a particular period of time, whereas supply alone shows how much firms want to sell at all prices.

3. When an economics student draws a supply and demand diagram to model an increase in the income, she is assuming this change happens

- a) semper fidelis.
- b) ceteris paribus.
- c) ipso facto.
- d) defacto.

Explanation: A Latin phrase most commonly used by economists is ceteris paribus, which means "other things equal." This phrase, when added to a definition or a conclusion, means that though there are many other factors that could affect a phenomenon in real life, this is focusing on the impact of one while holding those other factors constant.

4. If the supply and demand curves cross at a price of \$2, at any price above that there will be

- a) an equilibrium.
- b) a surplus.
- c) a shortage.
- d) a crisis.

Explanation: At any price above the equilibrium price, where demand and supply intersect, there will be a surplus of the good or service.

5. If the supply and demand curves cross at a quantity of 100, then the price necessary to get firms to sell more than that will have to be ______ equilibrium.

- a) above
- b) at
- c) below
- d) within 10 percent either way of

Explanation: Since the supply curve is upsloping, firms will sell more as the price rises. So in order for firms to sell more than a quantity of 100, the price would have to be above the equilibrium price.

6. An increase in which of the following determinants of demand will have an ambiguous (uncertain) effect on price?

- a) Taste
- b) Price of a complement
- c) Income
- d) Price of a substitute

Explanation: A rise in income can either increase demand if the good is a normal good, or decrease demand if the good is an inferior good.

7. Which of the following will impact both supply and demand?

- a) A change in price
- b) A change in quantity
- c) A change in expected future price
- d) A change in income

Explanation: Changes in expected future prices influence the choices of both consumers and producers.

8. An increase in the income of consumers will cause the

- a) supply of all goods to rise.
- b) demand for all goods to rise.
- c) supply of all goods to fall.
- d) the demand for some goods to rise and for others to fall.

Explanation: A rise in income can either increase demand if the good is a normal good, or decrease demand if the good is an inferior good.

9. Without an increase in price, an increase in demand will lead to

- a) a shortage.
- b) a surplus.
- c) socialism.
- d) equilibrium.

Explanation: If the price cannot increase when demand increases, there will be a shortage of the good.

10. The underlying reason for the upward-sloping nature of the supply curve is that

- a) the production of most goods comes with increasing marginal benefits.
- b) the production of most goods comes with increasing marginal costs.
- c) the consumption of most goods comes with decreasing marginal utility.
- d) the consumption of most goods comes with increasing marginal utility.

Explanation: As more of a good is produced, the added, or marginal cost, increases. The firm needs to have a higher price to produce more. Therefore, the supply curve is upsloping.

11. If Midwestern grain farmers can plant either soybeans or corn on their land with equal profitability and there is an increase in the price of soybeans, which of the following will result?

- a) A movement to the right in the demand for corn
- b) A movement to the left in the demand for corn
- c) A movement to the right in the supply of corn
- d) A movement to the left in the supply of corn

Explanation: Producers are on the supply side of the market. If soybeans are more profitable, farmers will switch from corn to soybeans and the supply of corn will shift to the left (decrease).

12. Part of the Patient Protection and Affordable Care Act involved a tax on indoor tanning that tanning salons are required to collect from tanners and send to the federal government. Which of the following would be the predicted result?

- a) A movement to the right in the demand for tanning
- b) A movement to the left in the demand for tanning
- c) A movement to the right in the supply of tanning
- d) A movement to the left in the supply of tanning

Explanation: Since the tax is collected from tanners, it would affect the demand side of the market. Tanning is now more costly, so demand shifts to the left (decreases).

13. As the baby boom generation (born between 1946 and 1964) ages, which of the following is a likely outcome?

a) A movement to the right in the demand for nursing home beds

- b) A movement to the left in the supply for nursing home beds
- c) A movement to the right in the supply of nursing home beds
- d) A movement to the left in the demand of nursing home beds

Explanation: As the baby boom generation (born between 1946 and 1964) ages, these older people will need more nursing care, hence more nursing home beds. Demand increases, or shifts to the right.

Short Answer Questions

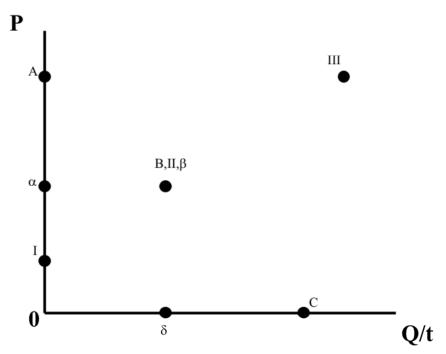
- 1. Use your own demand for pizza to illustrate the notion of diminishing marginal utility. Explain why that concept means your demand for pizza-by-the-slice is downward sloping.
- 2. Suppose you have been given money by your friends and sent to get beverages for a party. Use your demand for those beverages to illustrate why the concept of the "real balance effect" will mean your demand is downward sloping.
- 3. If there is an alteration to the price of a complement to a good, why is that a change in *demand* when an alteration in the price of the good itself is a change in the *quantity demanded*?
- 4. If there is an alteration in the price of an input used to produce a good, why is that a change in *supply* when an alteration in the price of the good itself is a change in the *quantity supplied*?

Think about This

Using simple supply and demand analysis, think about the system of allocating human kidneys. The law that forbids the same of human organs, but allows their voluntary donation, means that there is a bigger shortage of kidneys than there otherwise would be. Does this fact alter your view of the law forbidding the sale of human organs? How about blood?

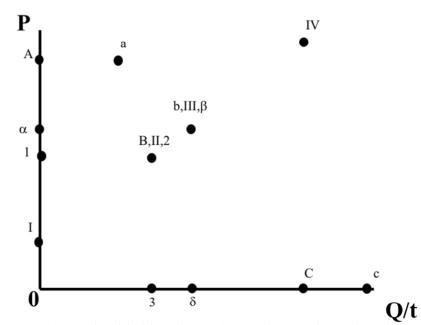
Talk about This

Are markets always right? List some markets that you think get the production or price of a good wrong. What do these goods have in common?



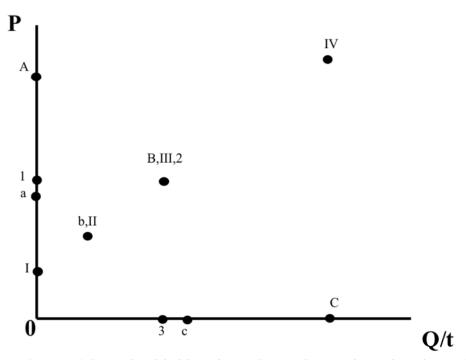
Connect A,B,C to get the demand curve; Connect I,II,III to get the supply curve; Connect α,β,δ .

 α Represents the equilibrium price; δ represents the equilibrium quantity; B,II, β represents the equilibrium point where supply and demand are equal.



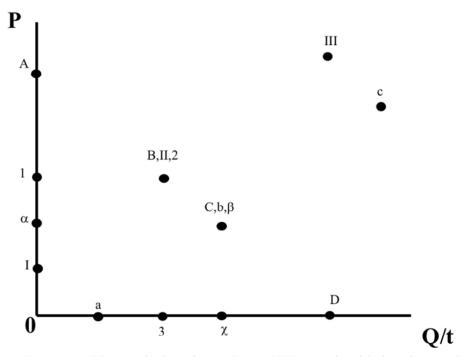
Connect A,B,C to get the original demand curve; Connect a,b,c to get the new demand curve; Connect I-IV to get the supply curve; Connect α , β , δ ; Connect 1,2,3.

1 represents the original equilibrium price; α represents the new equilibrium price; 3 represents the original equilibrium quantity; δ represents the new equilibrium quantity; B,II,2 represents the original equilibrium point where supply equals demand; b,III, β represents the new equilibrium point where supply equals demand.



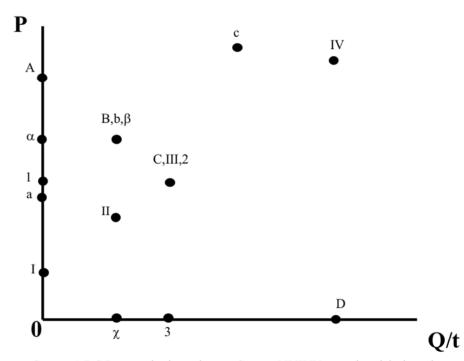
Connect A,B,C to get the original demand curve; Connect a,b,c to get the new demand curve; Connect I-IV to get the supply curve; Connect 1,2,3.

1 represents the original equilibrium price; a represents the new equilibrium price; 3 represents the original equilibrium quantity; c represents the new equilibrium quantity; B,III,2 represents the original equilibrium point where demand equals supply; b,II represents the new equilibrium point where demand equals supply.



Connect A,B,C,D to get the demand curve; Connect I,II,III to get the original supply curve; Connect a,b,c to get the new supply curve; Connect 1,2,3; Connect α,β,χ .

1 represents the original equilibrium price; α represents the new equilibrium price; 3 represents the original equilibrium quantity; χ represents the new equilibrium quantity; B,II,2 represents the original equilibrium point where demand equals supply; C,b, β represents the new equilibrium point where demand equals supply.



Connect A,B,C,D to get the demand curve; Connect I,II,III,IV to get the original supply curve; Connect a,b,c to get the new supply curve; Connect 1,2,3; Connect α,β,χ .

1 represents the original equilibrium price; α represents the new equilibrium price; 3 represents the original equilibrium quantity; χ represents the new equilibrium quantity; C,III,2 represents the original equilibrium point where demand equals supply; B,b, β represents the new equilibrium point where demand equals supply.



Chapter 2 Supply and Demand

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Chapter Outline

- SUPPLY AND DEMAND DEFINED
- THE SUPPLY AND DEMAND MODEL
- ALL ABOUT DEMAND
- ALL ABOUT SUPPLY
- DETERMINANTS OF DEMAND
- DETERMINANTS OF SUPPLY
- THE EFFECT OF CHANGES IN PRICE EXPECTATIONS
 ON THE SUPPLY AND DEMAND MODEL
- KICK IT UP A NOTCH: WHY THE NEW EQUILIBRIUM?

Definitions

- •Supply and Demand: the name of the most important model in all economics
- •Price: the amount of money that must be paid for a unit of output
- •Market: any mechanism by which buyers and sellers negotiate price
- •Output: the good or service and/or the amount of it sold

Definitions (continued)

- Consumers: those people in a market who are wanting to exchange money for goods or services
- Producers: those people in a market who are wanting to exchange goods or services for money
- Equilibrium Price: the price at which no consumers wish they could have purchased more goods at that price; no producers wish that they could have sold more
- Equilibrium Quantity: the amount of output exchanged at the equilibrium price

Quantity Demanded and Quantity Supplied

- •Quantity Demanded: how much consumers are willing and able to buy at a particular price during a particular period of time
- •Quantity Supplied: how much firms are willing and able to sell at a particular price during a particular period of time

Markets

Capitalism

- Free markets in financial capital as well as goods and services
- Freedom to borrow or lend
- Profits go to the owners of capital

Communism

- Capital and the profit that it generates is controlled by a government authority
- A government authority decides how the money is used

Socialism

- A significant part of the profit generated by financial capital goes to government in the form of taxes
- A government uses the tax money to counter the wealth impacts of the distribution of profit

Heritage Foundation Index of Economic Freedom

•Free

- Hong Kong
- Singapore
- New Zealand
- Switzerland
- Australia
- Canada

- Oppressed
 - Eritrea
 - Turkmenistan
 - Zimbabwe
 - Venezuela
 - Cuba
 - North Korea



The Scientific Method and Ceteris Paribus

Scientists

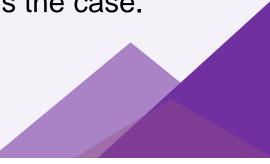
- conduct experiments in laboratories.
- use replication and verification to ensure the accuracy of their conclusions.

Social Scientists

- cannot experiment on their subjects.
- must use models and look at the effects of individual variables within those models.

• Economists

- hold variables constant within models to examine the effect of other variables.
- use the Latin phrase *ceteris paribus* which means "holding other things equal" to identify this is the case.



Demand and Supply

- Demand is the relationship between price and quantity demanded, ceteris paribus.
- •Supply is the relationship between price and quantity supplied, ceteris paribus.





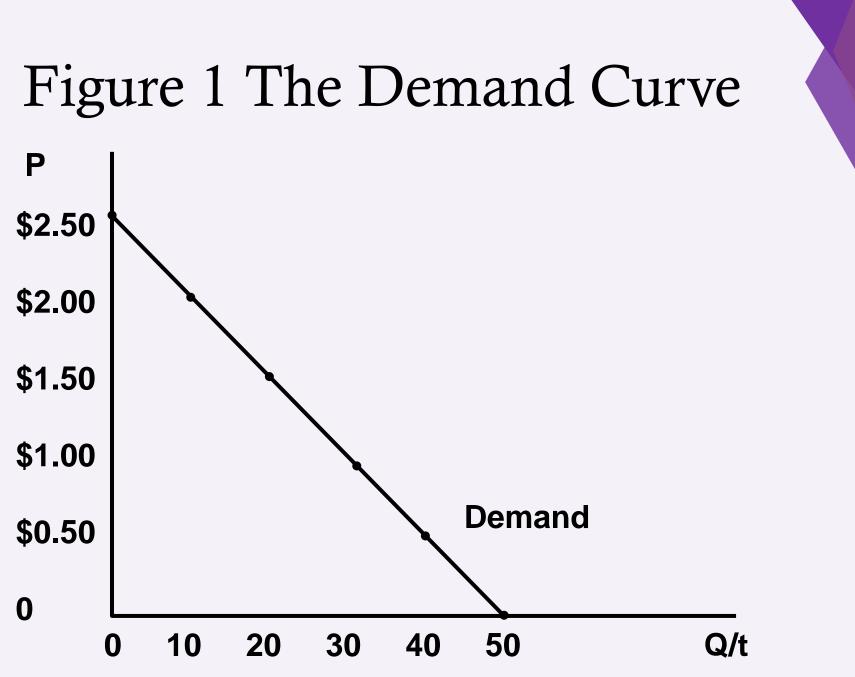
The Supply and Demand Model



The Demand Schedule

• The **Demand Schedule** presents, in tabular form, the price and quantity demanded for a good.

Price	Individual Q _D	Q _D for 10,000
\$0.00	5	50,000
\$0.50	4	40,000
\$1.00	3	30,000
\$1.50	2	20,000
\$2.00	1	10,000
\$2.50	0	0



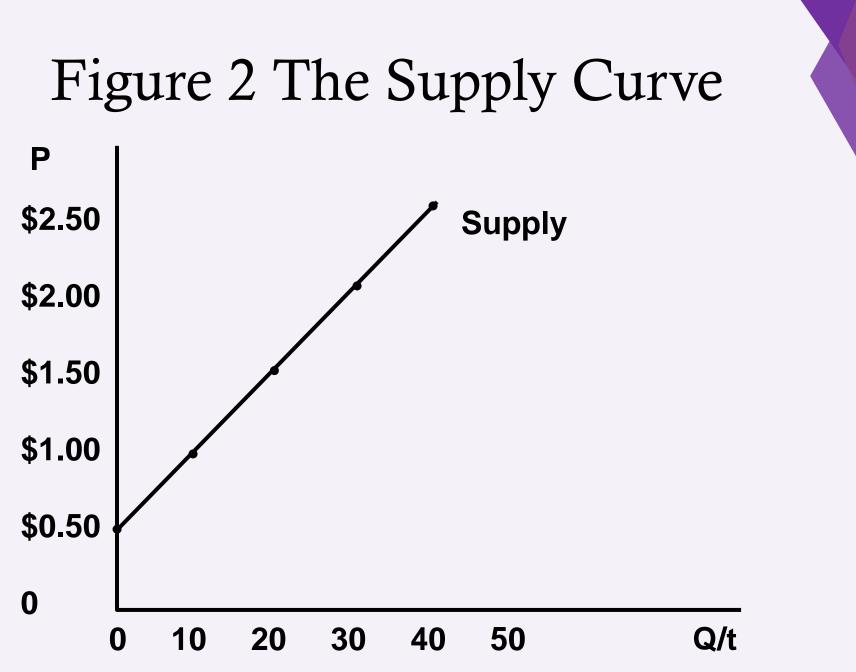
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The Supply Schedule

• The **Supply Schedule** presents, in tabular form, the price and quantity supplied for a good.

Price	Individual Q _s	Q _s for 10 Firms
\$0.00	0	0
\$0.50	0	0
\$1.00	1,000	10,000
\$1.50	2,000	20,000
\$2.00	3,000	30,000
\$2.50	4,000	40,000

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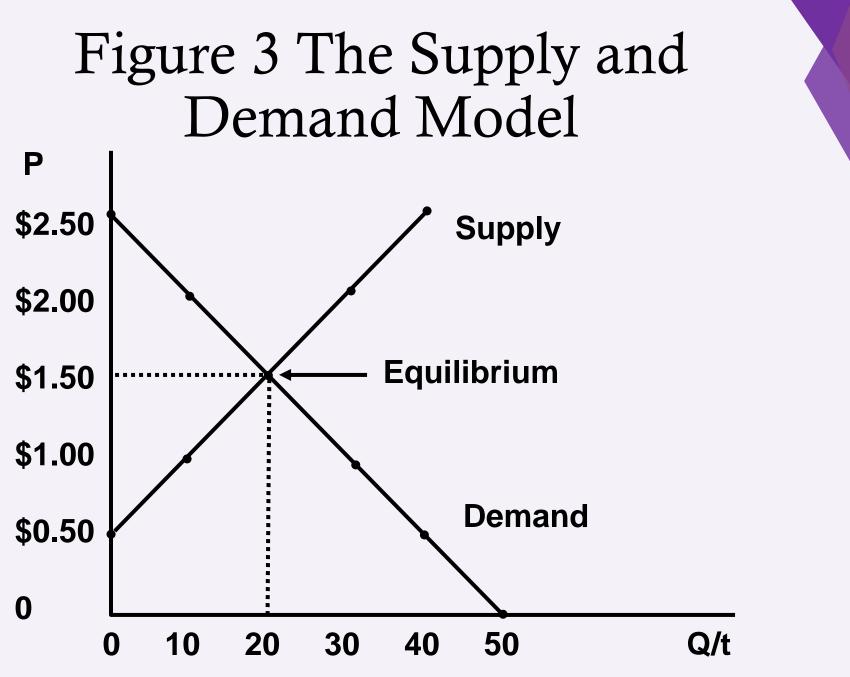
Equilibrium, Shortages, and Surpluses

•Equilibrium

- is the point where the amount that consumers want to buy and the amount that firms want to sell are the same.
- This occurs where the supply curve and the demand curve cross.
- •Shortage (Excess Demand): the condition where firms do not want to sell as many as consumers want to buy
- •Surplus (Excess Supply): the condition where firms want to sell more than consumers want to buy

A Combined Supply and Demand Schedule

Price	Q _D	Qs	Shortage	Surplus
\$0.00	50,000	0	50,000	
\$0.50	40,000	0	40,000	
\$1.00	30,000	10,000	20,000	
\$1.50	20,000	20,000		
\$2.00	10,000	30,000		20,000
\$2.50	0	40,000		40,000



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All About Demand

•The Law of Demand

•The relationship between price and quantity demanded is a negative or inverse one.



Why Does the Law of Demand Make Sense?

The Substitution Effect

 moves people toward the good that is now cheaper or away from the good that is now more expensive.

The Real-Balances Effect

• occurs when a price increases it decreases your buying power causing you to buy less.

•The Law of Diminishing Marginal Utility

 is the amount of additional happiness that you get from an additional unit of consumption falls with each additional unit.

All About Supply

•The Law of Supply is the statement that there is a positive relationship between price and quantity supplied.



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Why Does the Law of Supply Make Sense?

- •Because of Increasing Marginal Costs firms require higher prices to produce more output.
- Because many firms produce more than one good, an increase in the price of good A makes it (at the margin) more profitable so resources are diverted from good B to produce more of good A.

Determinants of Demand

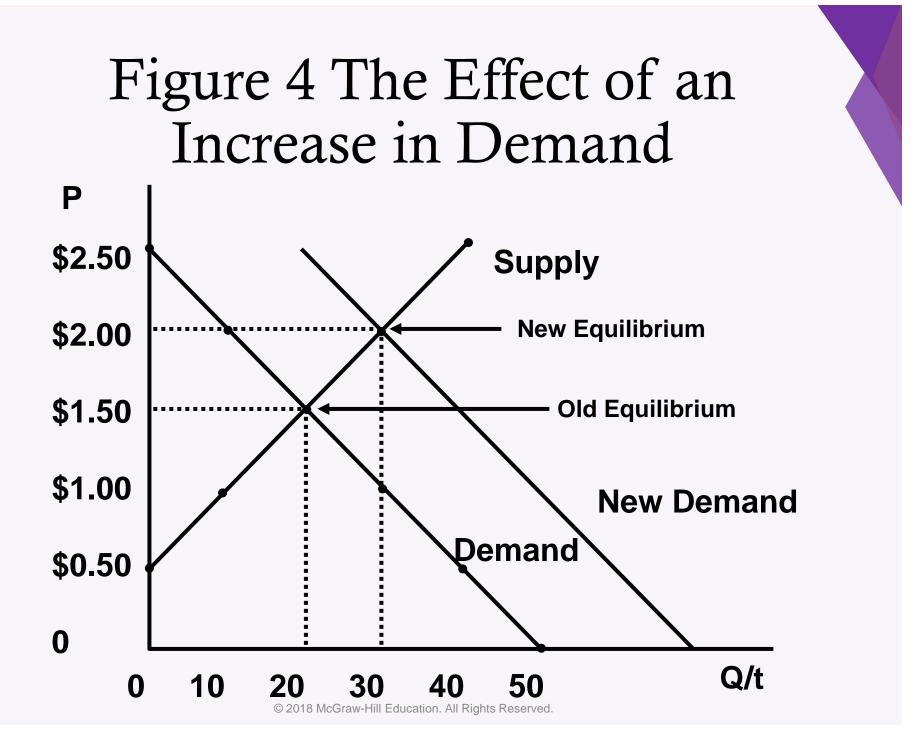
Taste

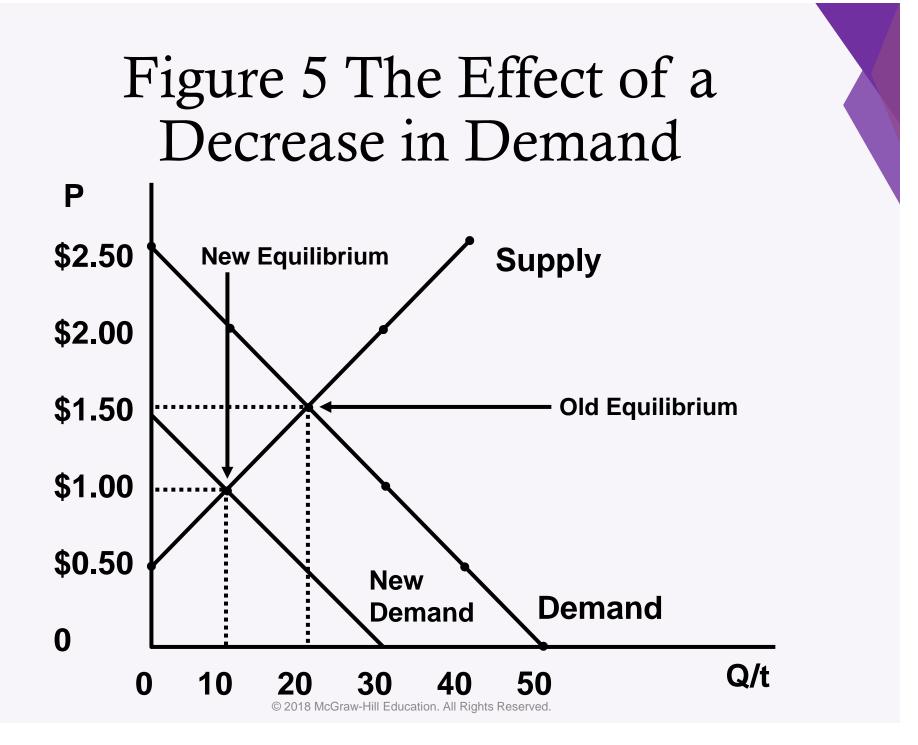
- Income
 - Normal Goods
 - Inferior Goods
- Price of Other Goods
 - Complement
 - Substitute
- Population of Potential Buyers
- Expected Price
- Excise Taxes
- Subsidies



Movements in the Demand Curve

Determinant	Result of an increase in the determinant	Result of a decrease in the determinant
Taste	D shifts right	D shifts left
Income-Normal Good	D shifts right	D shifts left
Income-Inferior Good	D shifts left	D shifts right
Price of Other Goods-Complement	D shifts left	D shifts right
Price of Other Goods-Substitute	D shifts right	D shifts left
Population of Potential Buyers	D shifts right	D shifts left
Expected Future Price	D shifts right	D shifts left
Excise Taxes	D shifts left	D shifts right
Subsidies	D shifts right	D shifts left





The Determinants of Supply

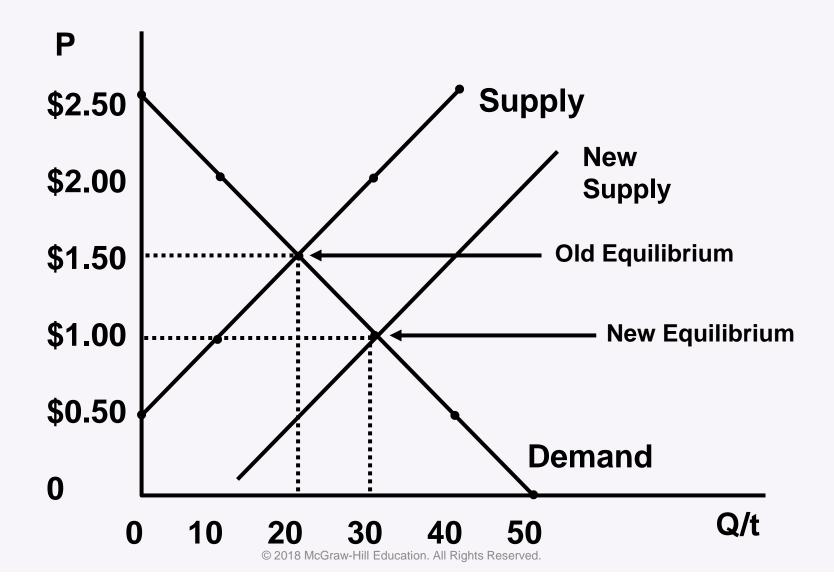
- Price of Inputs
- Technology
- Price of Other Potential Output
- Number of Sellers
- Expected Future Price
- Excise Taxes
- Subsidies

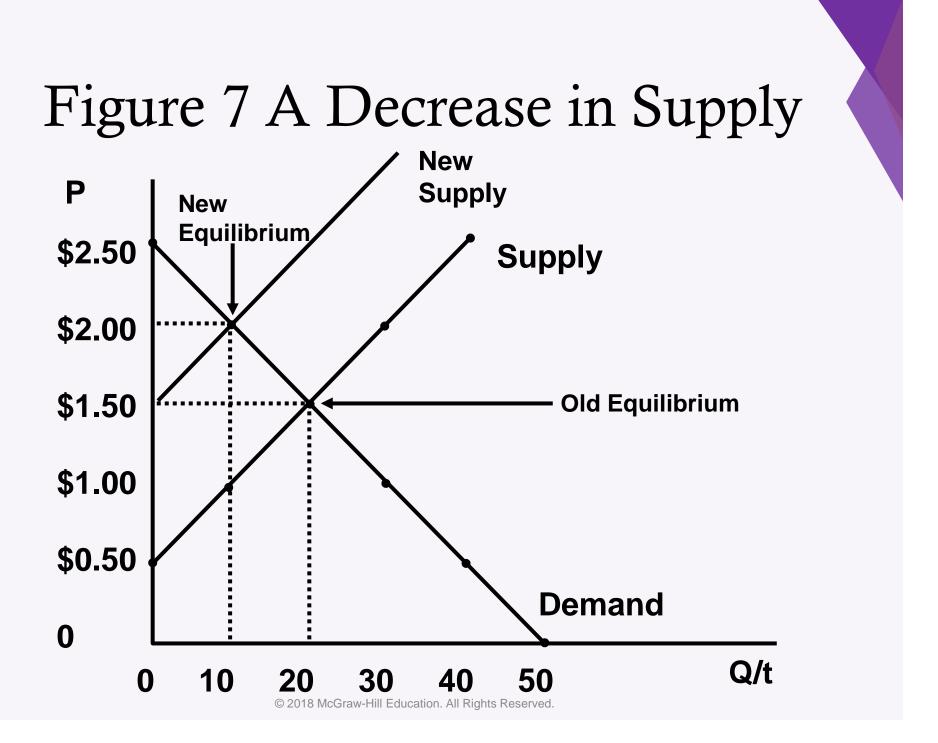


Movements in the Supply Curve

Determinant	Result of an increase in the determinant	Result of a decrease in the determinant
Price of Inputs	S shifts left	S shifts right
Technology	S shifts right	S shifts left
Price of Other Potential Outputs	S shifts left	S shifts right
Number of Sellers	S shifts right	S shifts left
Expected Future Price	S shifts left	S shifts right
Excise Taxes	S shifts left	S shifts right
Subsidies	S shifts right	S shifts left

Figure 6 An Increase in Supply







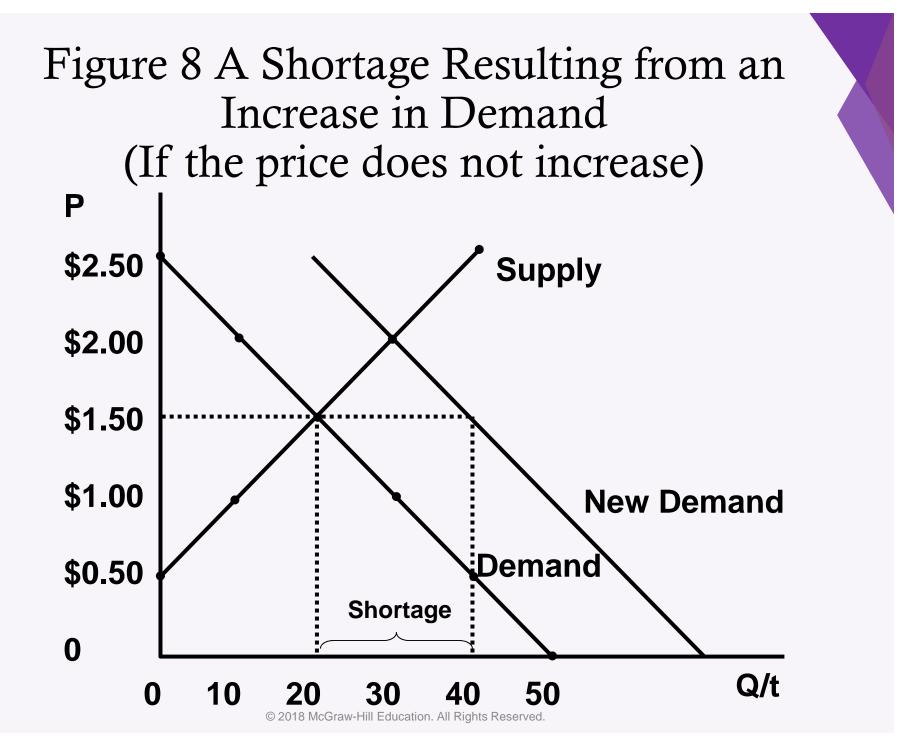
Kick It Up a Notch: Why the New Equilibrium?

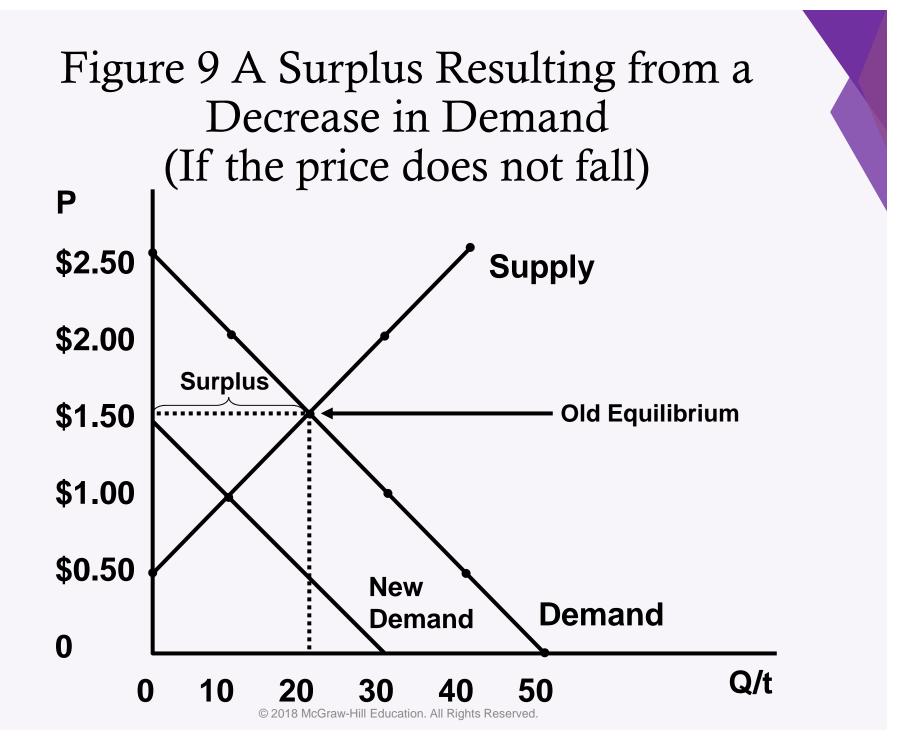


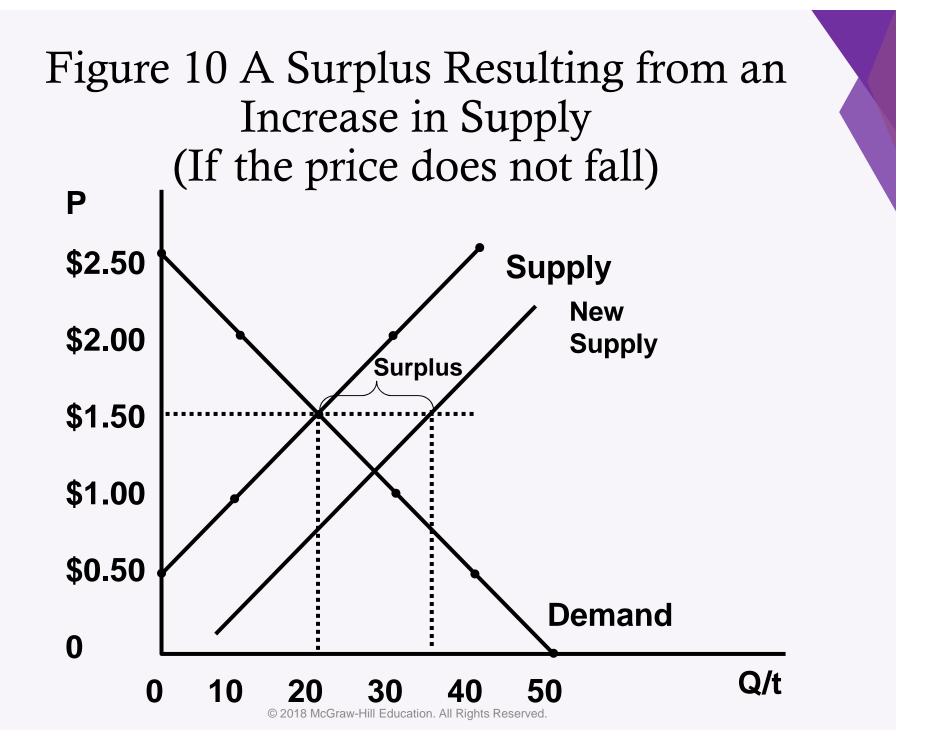
Why the New Equilibrium?

 If there is a change in supply or demand then, without a change in the price of the good, there will be a shortage or a surplus.



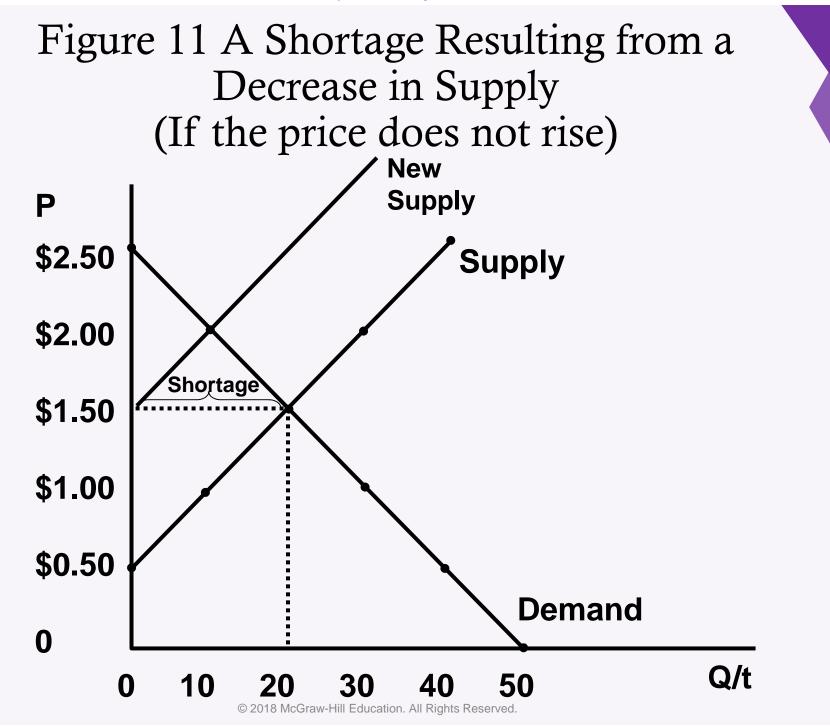






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