

Lab #3

Chapter 3 — Demand and Supply

1) Which market is an example of a market for goods?

- A) labour market
- B) capital market
- C) apple market
- D) energy market
- E) haircut market

Answer: C

User1:

2) A relative price is

- A) an opportunity cost.
- B) the ration of one price to another.
- C) a quantity of a "basket" of goods and services forgone.
- D) determined by demand and supply.
- E) all of the above.

Answer: E

User1: Study Guide

Use the table below to answer the following question(s).

Table 3.1

Year	Coffee Price	Tea Price	Cola Price
2000	\$1.25	\$1.10	\$0.80
2001	\$1.50	\$1.00	\$1.00
2002	\$1.25	\$1.20	\$1.00

3) Consider Table 3.1. In 2000, the relative price of coffee in terms of tea is

- A) 1.25.
- B) 1.00.
- C) 1.14.
- D) 0.88.
- E) 1.10.

Answer: C

User1:

- 4) The law of demand states that, all else constant,
- A) as income increases, willingness to pay for the last unit increases.
 - B) price and quantity supplied are positively related.
 - C) the higher the price of a good, the smaller is the quantity supplied.
 - D) the higher the price of a good, the greater is the quantity demanded.
 - E) the higher the price of a good, the smaller is the quantity demanded.

Answer: E

User1:

- 5) Which one of the following could shift the demand curve for grape jelly to the right?
- A) a fall in the population
 - B) a decrease in the price of grape jelly
 - C) an increase in the price of peanut butter, a complement
 - D) a decrease in the price of strawberry preserves, a substitute
 - E) an increase in income if grape jelly is a normal good

Answer: E

User1:

- 6) An increase in the price of ground beef will
- A) increase the demand for chicken, a substitute for beef.
 - B) increase the demand for hamburger buns, a complement for beef.
 - C) increase the quantity demanded of ground beef.
 - D) decrease the quantity demanded of ground beef.
 - E) both A and D.

Answer: E

User1:

- 7) An increase in income will
- A) increase the demand for turnips if turnips are inferior goods.
 - B) decrease the supply of turnips.
 - C) increase the supply of turnips.
 - D) increase the demand for turnips if turnips are normal goods.
 - E) decrease the demand for turnips if turnips have a very low price.

Answer: D

User1:

Use the figure below to answer the following question(s).

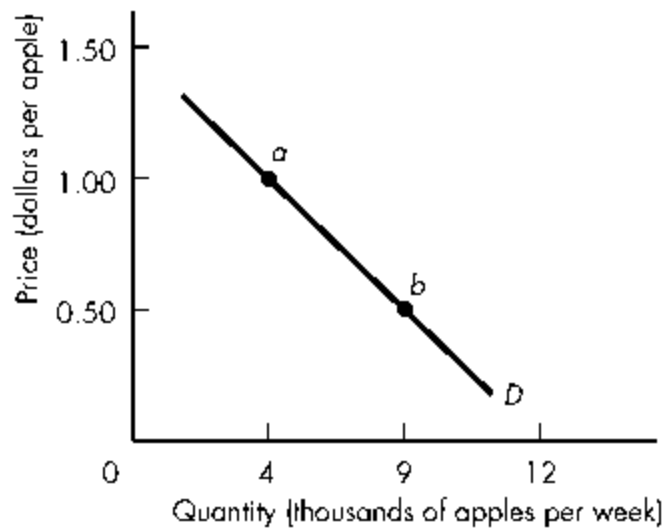


Figure 3.1

- 8) Which one of the following would result in a movement from point *a* to point *b* in Figure 3.1?
- A) a decrease in the price of apples
 - B) an increase in the price of bananas
 - C) public concern about chemicals sprayed on apples
 - D) an increase in the price of oranges
 - E) an increase in population size

Answer: A

User1:

Use the figure below to answer the following question(s).

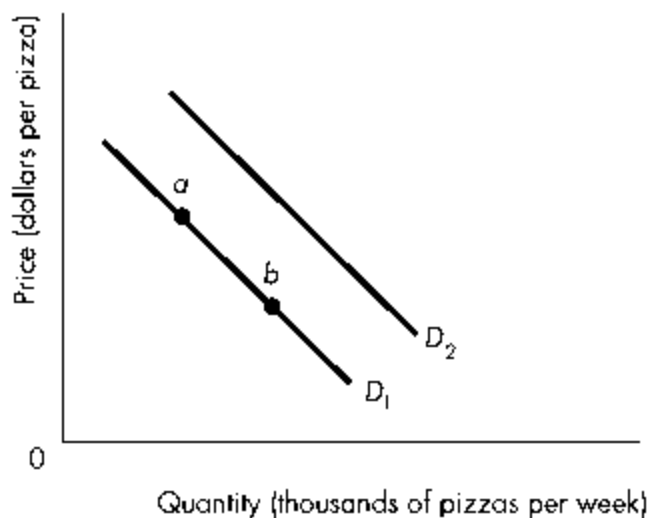


Figure 3.2

9) Which one of the following would cause a shift in demand from D_1 to D_2 in Figure 3.2?

- A) a decrease in the price of pizzas
- B) an increase in the price of pizzas
- C) an increase in the price of hamburgers, a substitute for pizzas
- D) an increase in the price of Coke, a complement for pizzas
- E) an increase in the supply of pizzas

Answer: C

User1:

10) If an increase in the price of good A causes the demand curve for good B to shift to the left, then

- A) A and B are complements in production.
- B) B is an inferior good.
- C) B is a normal good.
- D) A and B are substitutes in consumption.
- E) A and B are complements in consumption.

Answer: E

User1: Study Guide

11) If a decrease in the price of good X leads to a decrease in the demand for good Y, then

- A) X and Y are independent from each other.
- B) X and Y are complements in consumption.
- C) X is an inferior good.
- D) X is a normal good.
- E) X and Y are substitutes in consumption.

Answer: E

User1:

- 12) Good A is a normal good if
- A) an increase in the price of a substitute causes the demand for A to increase.
 - B) income and the demand for A are negatively related.
 - C) an increase in the price of a complement causes the demand for A to decrease.
 - D) good A satisfies the law of demand.
 - E) an increase in income causes the demand for A to increase.

Answer: E

User1:

- 13) If the demand for beer depends negatively on the price of beer (P_B), positively on the outside temperature (T), positively on the number of exams written that day (E), and positively on the price of wine (P_W), which of the following is a possible equation of the demand curve for beer?
- A) $Q = 100 - 5P_B + 5T + 10E - 2P_W$
 - B) $Q = 100 - 5P_B - 5T - 10E + 2P_W$
 - C) $Q = 100 + 5P_B + 5T + 10E - 2P_W$
 - D) $Q = 100 + 5P_B + 5T + 10E + 2P_W$
 - E) $Q = 100 - 5P_B + 5T + 10E + 2P_W$

Answer: E

User1:

- 14) If the demand for pizzas depends negatively on the price of pizzas (P_P), positively on income (I), positively on the number of parties in a weekend (F), and negatively on the price of beer (P_B), which of the following is a possible equation of the demand curve for pizzas?
- A) $Q = 100 - 5P_P - 5I - 10F + 2P_B$
 - B) $Q = 100 + 5P_P + 5I + 10F + 2P_B$
 - C) $Q = 100 - 5P_P + 5I + 10F + 2P_B$
 - D) $Q = 100 + 5P_P + 5I + 10F - 2P_B$
 - E) $Q = 100 - 5P_P + 5I + 10F - 2P_B$

Answer: E

User1:

- 15) The supply curve of a good slopes upward to the right because of
- A) the law of supply.
 - B) technological improvements over time.
 - C) the fact that prices tend to increase over time.
 - D) the existence of substitute goods.
 - E) the law of demand.

Answer: A

User1:

- 16) If a producer can use its resources to produce either good *A* or good *B*, then an increase in the price of *A* will cause
- A) a decrease in the supply of *B*.
 - B) an increase in the supply of *B*.
 - C) an increase in the supply of *A*.
 - D) a decrease in the supply of *A*.
 - E) both C and D.

Answer: A

User1:

- 17) If the production of good *A* is a by-product of the production of good *B*, then
- A) *A* and *B* are substitutes in production.
 - B) *A* and *B* are complements in production.
 - C) an increase in the price of *A* will cause an increase in the supply of *B*.
 - D) an increase in the price of *A* will cause a decrease in the demand for *B*.
 - E) both B and C.

Answer: E

User1:

- 18) If good *A* is a by-product of the production of good *B*, then an increase in the price of *A* will cause
- A) an increase in the quantity supplied of *A*.
 - B) a decrease in the quantity supplied of *A*.
 - C) an increase in the supply of *B*.
 - D) a decrease in the supply of *B*.
 - E) both A and C.

Answer: E

User1:

- 19) Which one of the following would *not* shift the supply curve for good *X* to the right?
- A) an increase in the price of *X*
 - B) a decrease in the price of *Y*, a substitute for the production of *X*
 - C) a reduction in the price of resources used in producing *X*
 - D) an improvement in technology affecting the production of *X*
 - E) an increase in the price of *Y*, a complement in the production of *X*

Answer: A

User1:

- 20) A decrease in the quantity supplied is represented by a
- A) movement up the supply curve.
 - B) movement down the supply curve.
 - C) rightward shift of the demand curve.
 - D) leftward shift of the supply curve.
 - E) rightward shift of the supply curve.

Answer: B

User1:

21) Which of the following will shift the supply curve for good X rightward?

- A) an increase in the cost of capital used to produce good X
- B) an increase in the price of energy
- C) a decrease in the wages of workers employed to produce good X
- D) an old technology that is used to produce good X
- E) a decrease in the number of suppliers of good X

Answer: C

User1:

22) A rise in the price of a good will cause

- A) the supply of the good to increase.
- B) the demand for the good to decrease.
- C) a movement down and to the right along the demand curve.
- D) a movement up and to the right along the supply curve.
- E) the demand for a complementary good to rise.

Answer: D

User1:

23) If the number of suppliers for good Y increases, then

- A) the supply curve for good Y will shift to the left.
- B) the supply curve for good Y will remain unchanged.
- C) a movement up on the same supply curve will occur.
- D) a movement down on the same supply curve will occur.
- E) the supply curve for good Y will shift to the right.

Answer: E

User1:

24) If the supply of wheat depends positively on the price of wheat (P_W), positively on the amount of sunshine (S), and negatively on the price of flax (P_F), which one of the following is a possible equation of the supply curve of wheat?

- A) $Q = 200 - 10P_W - 5S + P_F$
- B) $Q = 200 + 10P_W + 5S - P_F$
- C) $Q = 200 - 10P_W + 5S - P_F$
- D) $Q = 200 - 10P_W + 5S + P_F$
- E) $Q = 200 + 10P_W - 5S - P_F$

Answer: B

User1:

25) If the supply of economic tutoring depends positively on the price of economic tutoring (P_E), positively on the amount of marking jobs (J), and positively on the price of beer (P_B), which one of the following is a possible equation of the supply curve of economic tutoring?

- A) $Q = 200 + 10P_E - 5J - P_B$
- B) $Q = 200 + 10P_E + 5J + P_B$
- C) $Q = 200 - 10P_E - 5J + P_B$
- D) $Q = 200 - 10P_E + 5J + P_B$
- E) $Q = 200 - 10P_E + 5J - P_B$

Answer: B

User1:

Use the figure below to answer the following question(s).

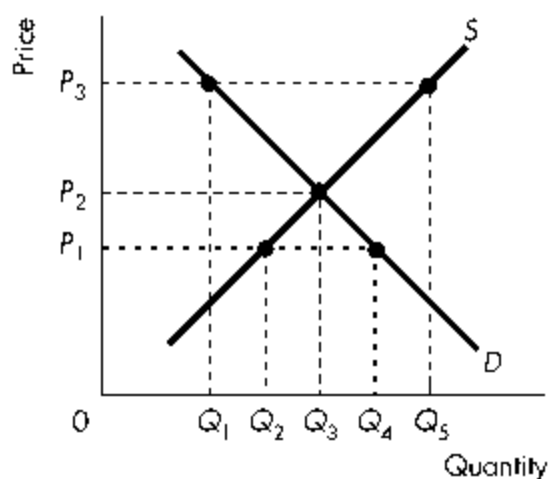


Figure 3.3

26) At price P_3 in Figure 3.3,

- A) there is a surplus in the amount $Q_5 - Q_1$.
- B) this market is in equilibrium.
- C) there is a shortage in the amount of $Q_5 - Q_1$.
- D) equilibrium quantity is Q_5 .
- E) there is a tendency for the price to rise.

Answer: A

User1:

Use the figure below to answer the following question(s).

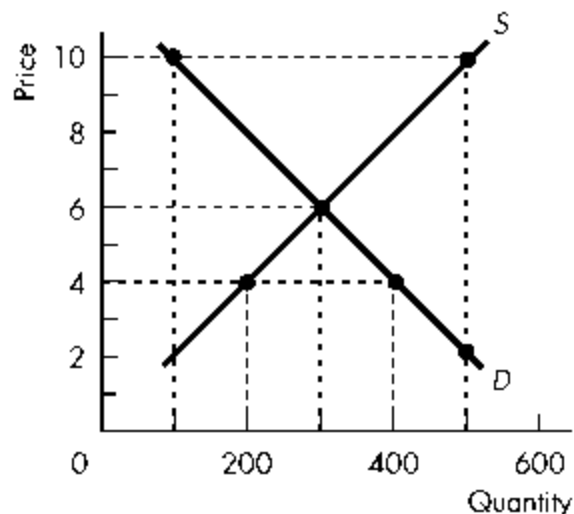


Figure 3.4

27) The equilibrium price in the market illustrated by Figure 3.4 is

- A) \$6.
- B) \$2.
- C) \$8.
- D) \$4.
- E) 10.

Answer: A

User1:

28) At a price of \$10 in Figure 3.4,

- A) there is a surplus of 200 units.
- B) there is a shortage of 200 units.
- C) there is a surplus of 400 units.
- D) quantity will rise.
- E) there is a shortage of 400 units.

Answer: C

User1:

29) The price of a good will increase if

- A) it is an inferior good and income increases.
- B) the price of a substitute in consumption decreases.
- C) supply of the good decreases.
- D) demand for the good decreases.
- E) there is a surplus of the good.

Answer: C

User1:

Use the figure below to answer the following question(s).

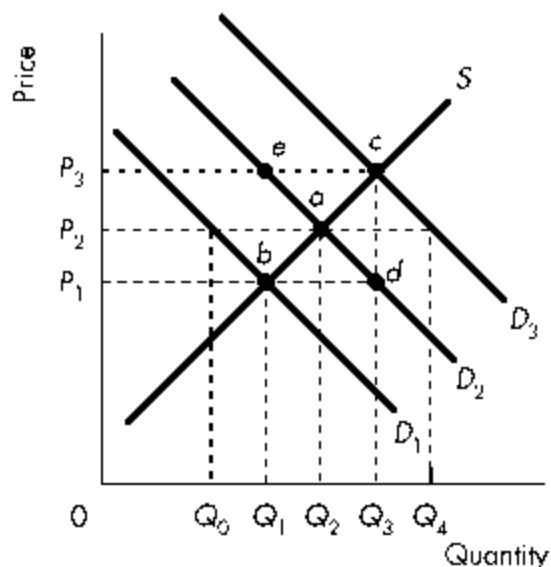


Figure 3.5

30) Initially, the demand curve for good A is D_2 in Figure 3.5. Suppose good B is a substitute (in consumption).

If the price of B falls,

- A) there will be a surplus of good A at P_2 .
- B) the equilibrium quantity will rise.
- C) the demand for good A will shift from D_2 to D_3 .
- D) the price of A will rise.
- E) all of the above *except* B.

Answer: A

User1:

31) If A and B are substitute goods (in consumption) and the price of A increases, we will observe

- A) an increase in the price but a decrease in the equilibrium quantity of B.
- B) an increase in the price and the equilibrium quantity of B.
- C) a decrease in price but an increase in the equilibrium quantity of B.
- D) a decrease in the price and the equilibrium quantity of B.
- E) none of the above.

Answer: B

User1:

32) Suppose we observe both an increase in the price of good A and an increase in the quantity of good A bought and sold. Which one of the following is a likely explanation?

- A) The supply of A has decreased.
- B) The demand for A has decreased.
- C) The demand for A has increased.
- D) The law of demand is violated.
- E) The supply of A has increased.

Answer: C

User1:

33) Suppose we observe both a decrease in the price of good A and an increase in the quantity of good A bought and sold. Which one of the following is a likely explanation?

- A) The supply of A has increased.
- B) The law of supply is violated.
- C) The supply of A has decreased.
- D) The demand for A has decreased.
- E) The demand for A has increased.

Answer: A

User1:

34) If demand increases and supply decreases, then the

- A) equilibrium quantity will increase but the effect on the price is indeterminate.
- B) effect on both equilibrium price and quantity will be indeterminate.
- C) equilibrium quantity will decrease but the effect on the price is indeterminate.
- D) price will fall but the effect on the equilibrium quantity will be indeterminate.
- E) price will rise but the effect on the equilibrium quantity will be indeterminate.

Answer: E

User1:

35) If we observe an increase in the equilibrium price of good A, we know that either the demand for A has

- A) increased or the supply of A has increased (or both).
- B) increased or the supply of A has decreased (or both).
- C) decreased or the supply of A has increased (or both).
- D) decreased or the supply of A has decreased (or both).
- E) none of the above.

Answer: B

User1:

- 36) If we observe an increase in the equilibrium quantity, we know that
- A) either the demand for A has decreased or the supply of A has decreased (or both).
 - B) either the demand for A has decreased or the supply of A has increased (or both).
 - C) either the demand for A has increased or the supply of A has decreased (or both).
 - D) either the demand for A has increased or the supply of A has increased (or both).
 - E) any of the above could have occurred; it depends on the relative size of the effects.

Answer: D

User1:

- 37) There have been severe problems in the Atlantic fishing industry, with large falls in the fish stocks. As a result of this,
- A) equilibrium price and quantity will fall or rise depending on how large is the fall in fish stocks.
 - B) the fall in the fish stocks will lead to a shortage, and therefore, a rise in price and a fall in equilibrium quantity.
 - C) both equilibrium price and quantity will rise, as consumers will desire even more fish, since they are scarce.
 - D) the quantity of fish sold will increase, as fishermen will catch more to make up for the shortage.
 - E) the price of fish will fall, since no one will be able to purchase them.

Answer: B

User1:

Use the information below to answer the following question(s).

Fact 3.1

The market for coffee is initially in equilibrium with supply and demand curves of the usual shape. Pepsi is a substitute for coffee; cream is a complement for coffee. Consider the market for coffee. Assume that all *ceteris paribus* assumptions continue to hold *except* for the event(s) listed.

- 38) Consider Fact 3.1. If there is an increase in the wages of farm workers who harvest coffee beans, the equilibrium quantity of coffee will
- A) rise or fall, depending on the slope of supply and demand curves.
 - B) rise or fall, depending on the relative shifts of the supply and demand curves.
 - C) fall.
 - D) rise.
 - E) remain the same.

Answer: C

User1:

- 39) Consider Fact 3.1. The price of cream falls. Simultaneously, there is an increase in the wages of farm workers who harvest coffee beans. The equilibrium quantity of coffee will
- A) rise or fall, depending on the slope of the supply and demand curves.
 - B) fall.
 - C) rise or fall, depending on the relative shifts of supply and demand curves.
 - D) rise.
 - E) remain the same.

Answer: C

User1:

- 40) Consider Fact 3.1. A new study comes out, revealing that drinking Pepsi increases your ability to study. The equilibrium quantity of coffee will
- A) rise or fall, depending on the slope of supply and demand curves.
 - B) rise.
 - C) remain the same.
 - D) rise or fall, depending on the relative shifts of the supply and demand curves.
 - E) fall.

Answer: E

User1:

Use the figure below to answer the following question(s).

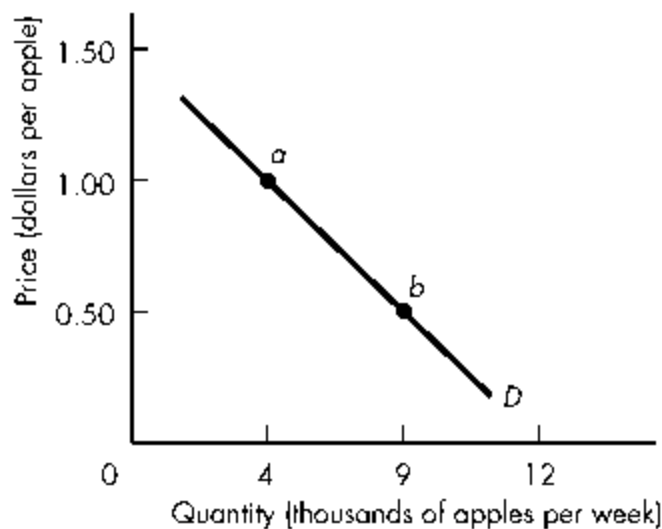


Figure 3.1

41) Point *a* in Figure 3.1 indicates that

- A) \$1 is the least that consumers are willing to pay for the 4,000th apple.
- B) if the price is \$1, consumers will plan to buy 4,000 apples.
- C) consumers will only pay \$1 for any apple.
- D) consumers will not be in equilibrium if the price of an apple is \$1.
- E) if the price is more than \$1, consumers will buy 9,000 apples.

Answer: B

User1:

42) Which one of the following statements best characterizes point *b* in Figure 3.1?

- A) Producers would be unwilling to sell the 9,000th apple for less than \$0.50.
- B) At a price of \$0.50, consumers will be unwilling to buy apples.
- C) At point *b*, the market is in equilibrium.
- D) At a price of \$0.50, there will be an apple shortage.
- E) The most that consumers would be willing to pay for the 9,000th apple is \$0.50.

Answer: E

User1:

43) Given Figure 3.1, it seems that if the price is \$1.5, consumers will buy _____ apples per week.

- A) between 4,000 and 9,000
- B) 9,000
- C) 4,000
- D) 12,000
- E) zero

Answer: E

User1:

- 44) Given Figure 3.1, under what condition are consumers willing to buy more than 9,000 apples per week?
- A) if the price is between \$1 and \$1.50
 - B) if the price is \$0.75
 - C) if the price is below \$0.50
 - D) if the price is between \$1 and \$0.50
 - E) if the price is above \$1

Answer: C

User1:

- 45) Which one of the following would lead to an increase in the demand for hamburgers?
- A) a decrease in consumer income if hamburgers are a normal good
 - B) a news report that hamburgers can cause skin diseases
 - C) a decrease in population size
 - D) an increase in the price of French fries, a complement of hamburgers
 - E) a new fad hamburger diet

Answer: E

User1:

Use the table below to answer the following question(s).

Table 3.2

Price (dollars per unit)	Quantity Demanded (units)	Quantity Supplied (units)
1	1,100	50
2	800	200
3	600	420
4	500	500
5	420	580
6	350	640
7	320	680
8	300	700

- 46) Refer to Table 3.2. At a price of \$3,
- A) there will be a 180-unit surplus.
 - B) the market will be in equilibrium.
 - C) there will be a 180-unit shortage.
 - D) there will be a tendency for the price to rise.
 - E) C and D.

Answer: E

User1:

47) In Table 3.2, the equilibrium price is

- A) \$7.
- B) \$4.
- C) \$3.
- D) \$5.
- E) \$1.

Answer: B

User1:

48) In Table 3.2, the equilibrium quantity is

- A) 200 units.
- B) 420 units.
- C) 320 units.
- D) 500 units.
- E) none of the above; there is no equilibrium.

Answer: D

User1:

49) Refer to Table 3.2. The equilibrium quantity will be 420 units if

- A) the price is fixed at \$3.
- B) the price is fixed at \$4.
- C) the price is fixed at \$5.
- D) both A and C.
- E) none of the above.

Answer: E

User1:

50) Refer to Table 3.2. Excess demand occurs if

- A) there is a surplus.
- B) the price is \$4.
- C) the price is \$7.
- D) the price is \$6.
- E) the price is below \$4.

Answer: E

User1:

51) Refer to Table 3.2. Excess supply occurs if

- A) there is a shortage.
- B) if the price is \$3.
- C) the price is \$4.
- D) the price is above \$4.
- E) the price is \$2.

Answer: D

User1:

52) Refer to Table 3.2. If the price is \$7, then excess supply is

- A) 290.
- B) 160.
- C) zero.
- D) 400.
- E) 360.

Answer: E

User1:

53) Refer to Table 3.2. If the price is \$3, then excess demand is

- A) 180.
- B) 1050.
- C) 600.
- D) 160.
- E) zero.

Answer: A

User1:

54) If the price is above the equilibrium price, then

- A) none of the good will be sold.
- B) there is a shortage.
- C) price will not change; producers will cut back production until the market is in equilibrium.
- D) there is a surplus.
- E) the price must rise to clear the market.

Answer: D

User1:

55) A shortage will exist if

- A) there are not enough consumers.
- B) there are not enough producers.
- C) the price is above equilibrium.
- D) demand decreases.
- E) the price is below equilibrium.

Answer: E

User1:

56) Which one of the following correctly describes how price adjustment eliminates a surplus?

- A) As the price rises, the quantity demanded increases while the quantity supplied decreases.
- B) As the price falls, the quantity demanded increases while the quantity supplied decreases.
- C) As the price falls, the demand for substitutes of the good falls, eliminating the surplus.
- D) As the price falls, the quantity demanded decreases while the quantity supplied increases.
- E) As the price rises, the quantity demanded decreases while the quantity supplied increases.

Answer: B

User1:

- 57) If *A* and *B* are substitute goods (in consumption) and the cost of a resource used in the production of *A* increases, then the price of
- A) *A* will decrease, and the price of *B* will stay unchanged.
 - B) *A* and *B* will decrease.
 - C) *B* will increase but the price of *A* will decrease.
 - D) *A* and *B* will increase.
 - E) *B* will decrease but the price of *A* will increase.

Answer: D

User1:

- 58) If *A* and *B* are substitutes in production and the price of *A* falls, the supply of *B* will
- A) decrease, and thus the price of *B* will increase.
 - B) decrease, and thus the price of *B* will decrease.
 - C) increase, and thus the price of *B* will increase.
 - D) increase, and thus the price of *B* will decrease.
 - E) shift depending on whether *A* and *B* are substitutes in consumption.

Answer: D

User1:

- 59) If *A* and *B* are complements in production and the price of *A* falls, the supply of *B* will
- A) shift up or down depending on how close *A* and *B* are as complements.
 - B) increase, and thus the price of *B* will decrease.
 - C) decrease, and thus the price of *B* will decrease.
 - D) increase, and thus the price of *B* will increase.
 - E) decrease, and thus the price of *B* will increase.

Answer: E

User1:

- 60) A technological improvement in the production process of compact disc players will lead to a
- A) fall in the price of CD players, and a leftward shift in the demand curve for compact discs.
 - B) fall in the price of CD players, and an increase in demand for records.
 - C) fall in the price of CD players, and a leftward shift in the demand curve for tape players.
 - D) fall in the price of CD players, and a fall in the demand for CD players.
 - E) rise in the price of CD players.

Answer: C

User1:

- 61) If Canadians suddenly develop a strong urge to escape the cold winter by taking vacations in Hawaii, the
- A) price of luggage will rise, because luggage and vacations are complements.
 - B) price of airline tickets will fall, as ticket agents make deals in response to this change.
 - C) initial result of the change is a surplus of vacations in Hawaii, leading to a price rise.
 - D) price of skiing vacations in the mountains will rise.
 - E) price of vacations in Hawaii will rise and the overall quantity demanded will be lower.

Answer: A

User1:

- 62) DVD's and DVD-players are complements. An increase in the price of DVD's would cause which of the following in the market for DVD-players?
- A) The equilibrium price and quantity of DVD-players would decrease.
 - B) The equilibrium price of DVD-players would increase and the equilibrium quantity would decrease.
 - C) The equilibrium price and quantity of DVD-players would increase.
 - D) The equilibrium price and the equilibrium quantity of DVD-players remain unchanged.
 - E) The equilibrium price of DVD-players would decrease and the equilibrium quantity would increase.

Answer: A

User1:

Use the figure below to answer the following question(s).

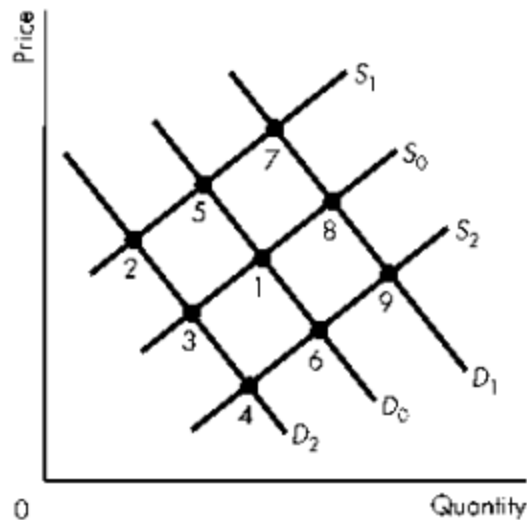


Figure 3.6

Original Equilibrium at 1.

- 63) Consider Figure 3.6, which represents the market for beans. If the price of peas, a substitute for beans in consumption, increases, what is the new *beans* equilibrium, *ceteris paribus*?
- A) 5
 - B) 8
 - C) 9
 - D) 3
 - E) 6

Answer: B

User1:

64) Consider Figure 3.6, which represents the market for beer. If the price of pizza, a complement for beer in consumption, increases, what is the new *beer* equilibrium, *ceteris paribus*?

- A) 3
- B) 9
- C) 8
- D) 5
- E) 6

Answer: A

User1:

65) Consider Figure 3.6, which represents the market for beans. If the price of peas, a substitute for beans in **production**, increases, what is the new *beans* equilibrium, *ceteris paribus*?

- A) 3
- B) 9
- C) 5
- D) 8
- E) 6

Answer: C

User1:

66) Consider Figure 3.6, which represents the market for cow manure. If the price of milk, a complement for manure in production, increases, what is the new manure equilibrium, *ceteris paribus*?

- A) 3
- B) 6
- C) 9
- D) 5
- E) 8

Answer: B

User1:

67) Consider Figure 3.6, which represents the market for beans. If the price of peas, a substitute for beans in consumption *and* in production, increases, what is the new *beans* equilibrium, *ceteris paribus*?

- A) 7
- B) 9
- C) 4
- D) 2
- E) 3

Answer: A

User1:

68) Consider Figure 3.6, which represents the market for beans. If the price of peas, a substitute for beans in consumption, increases, *and* the cost of producing beans decreases, what is the new *beans* equilibrium, *ceteris paribus*?

- A) 9
- B) 3
- C) 4
- D) 7
- E) 2

Answer: A

User1:

69) Consider Figure 3.6, which represents the market for tacos. A new scientific study reveals that tacos cause bad breath. Simultaneously, the cost of producing tacos decreases. What is the new equilibrium, *ceteris paribus*?

- A) 3
- B) 7
- C) 4
- D) 2
- E) 9

Answer: C

User1:

70) Consider Figure 3.6, which represents the market for tacos. A new scientific study reveals that tacos cause bad breath. Simultaneously, the cost of producing tacos increases. What is the new equilibrium, *ceteris paribus*?

- A) 3
- B) 9
- C) 7
- D) 2
- E) 4

Answer: D

User1: