

# Demand Theory

# Types of Demand

- Demand for consumers' goods and producers' goods
- Demand for perishable and durable goods
- Autonomous (direct) and derived (indirect) demand
- Individual demand and Aggregate/market Demand
- Firm and Industry Demand
- Demand by market segments and by total Market

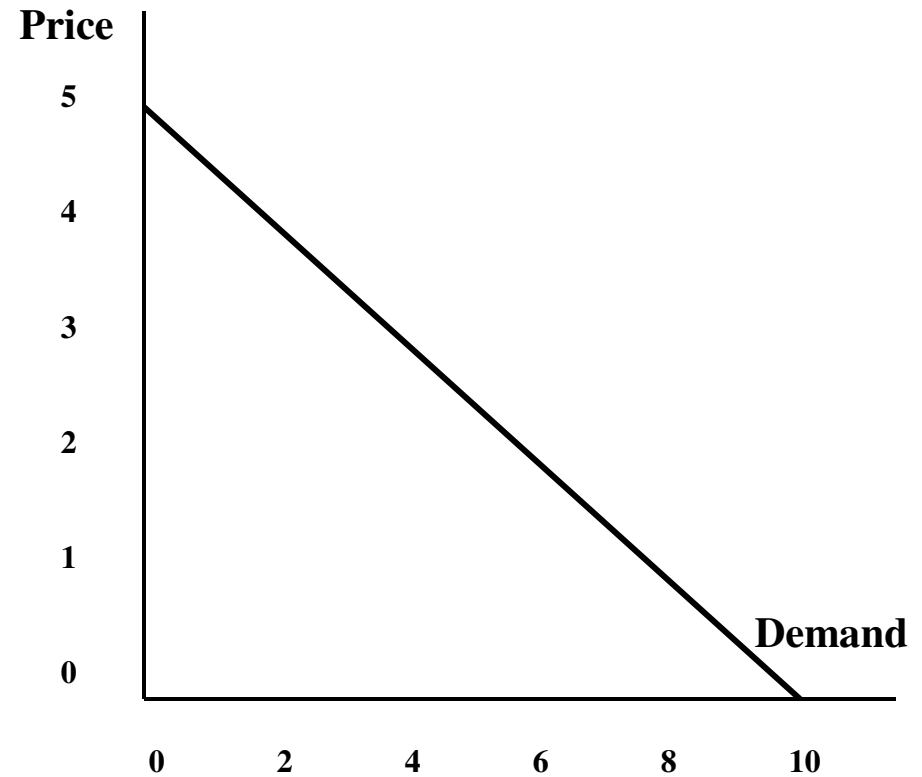
# Law of Demand

- A decrease in the price of a good, all other things held constant, will cause an increase in the quantity demanded of the good.
- And Vice-versa

# An Example

( the inverse relationship, i.e., The Law of Demand)

Price	Quantity
0	10
1	8
2	6
3	4
4	2
5	0



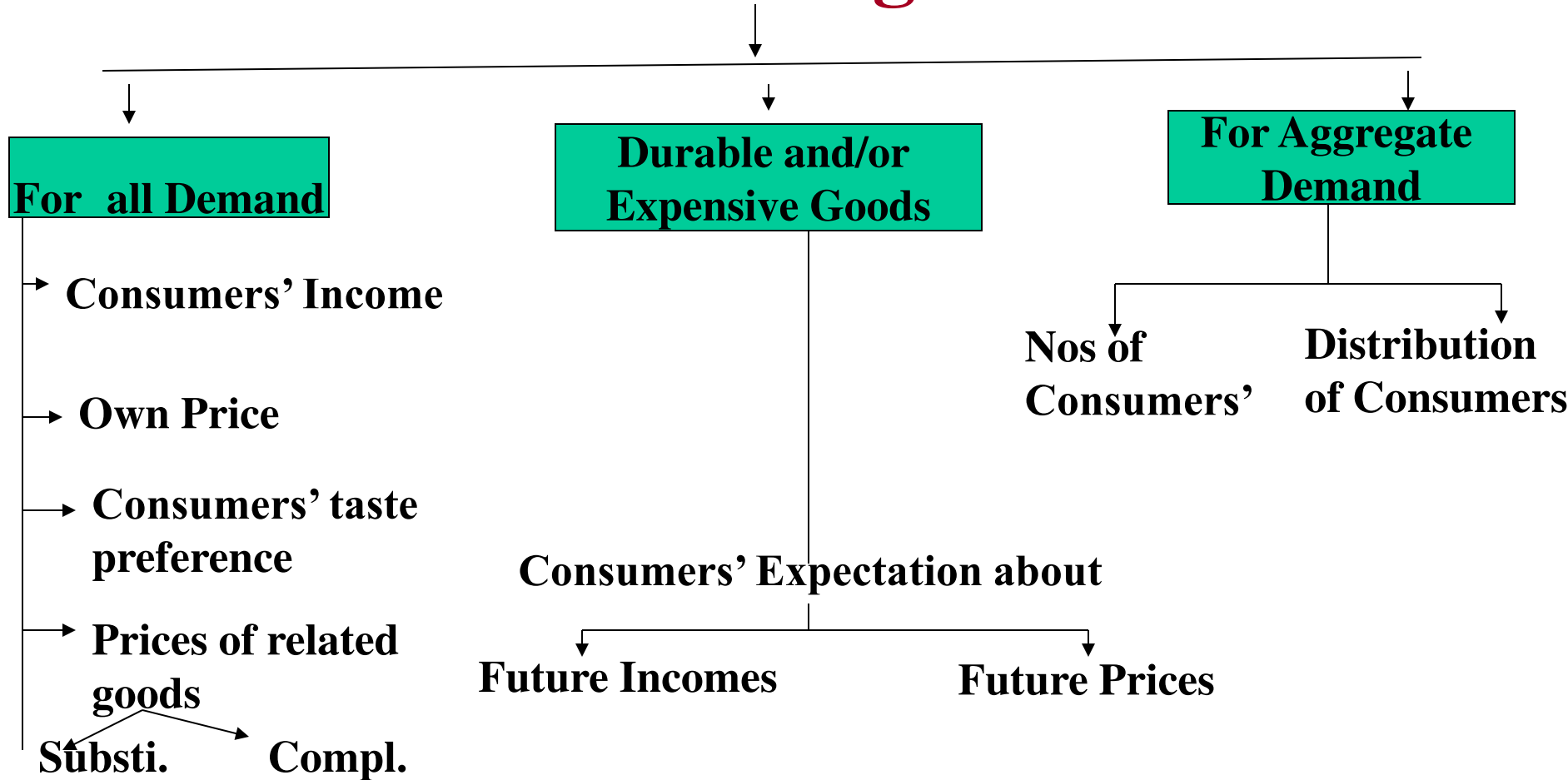
# Determinants of Demand

- **Income**
- **Prices of substitutes**
- **Prices of complements**
- **Advertising**
- **Population**
- **Consumer expectations**

# How Advertising?

- Advertising influences consumer choice and preferences.
- Advertising budgets of profit-seeking firms indicate that it influences consumer choices.
- Advertising can:
  - reduce the search time of consumers
  - help them make more informed choices
  - provide assurances with regard to quality (through brand names).

# Factors affecting Demand



# Demand Function

$$D_x = f ( y, P_x, P_s, P_c, T; E_p, E_y; N, D, u )$$

**Where,**

**$D_x$  = Demand for good X**

**$Y$  = Consumers' Income**

**$P_x$  = Price of Good X**

**$P_s$  = Prices of substitutes of X**

**$P_c$  = Prices of complements of X**

**$T$  = measures of consumers' tastes & preferences**

**$E_p$  &  $E_y$  = Consumers' expectation about future prices & incomes**

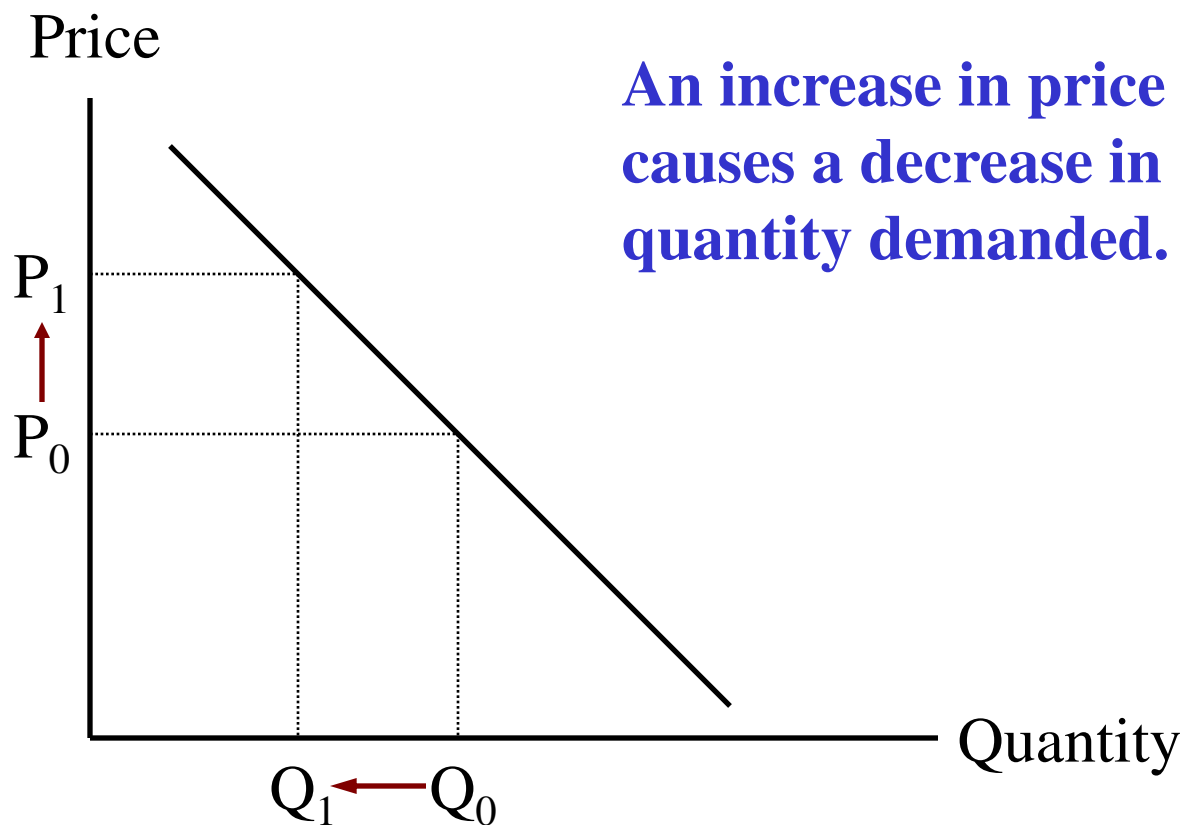
**$N$  = Number of consumers**

**$D$  = distribution of consumers**

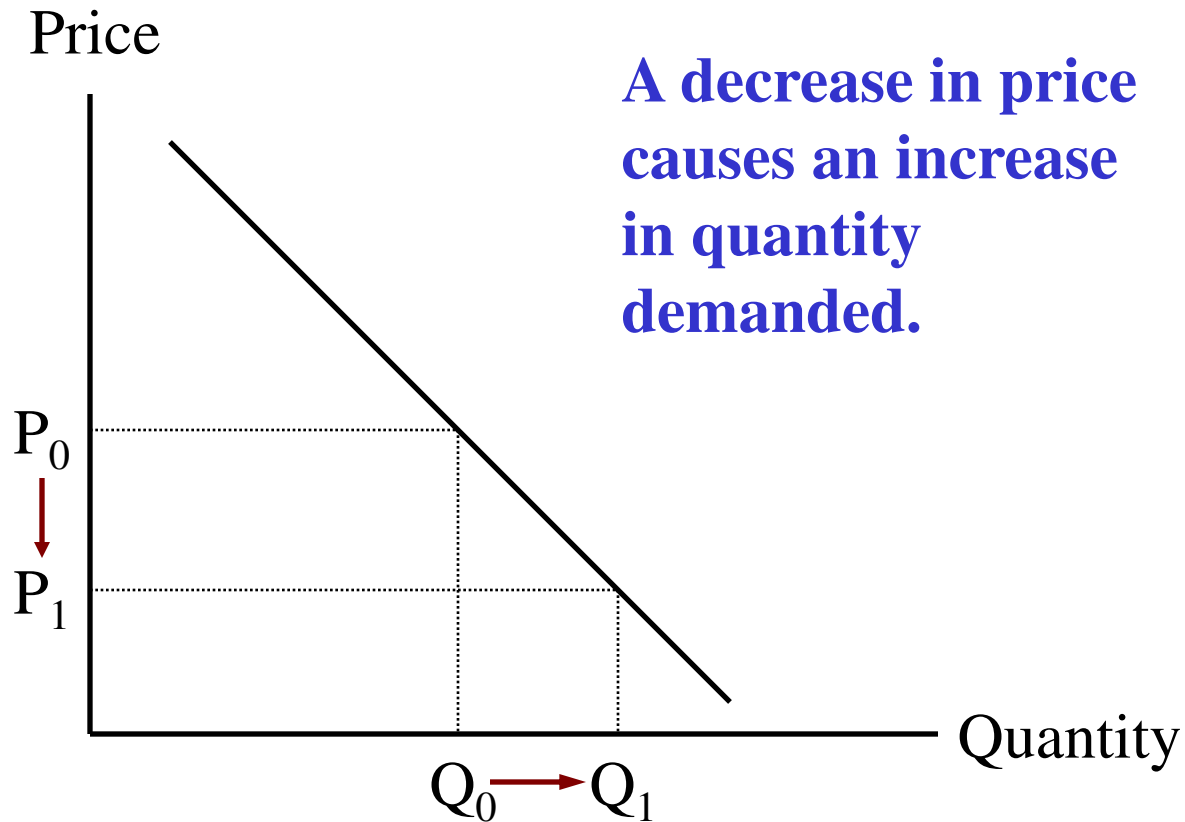
**$U$  = others**



# Change in Quantity Demanded



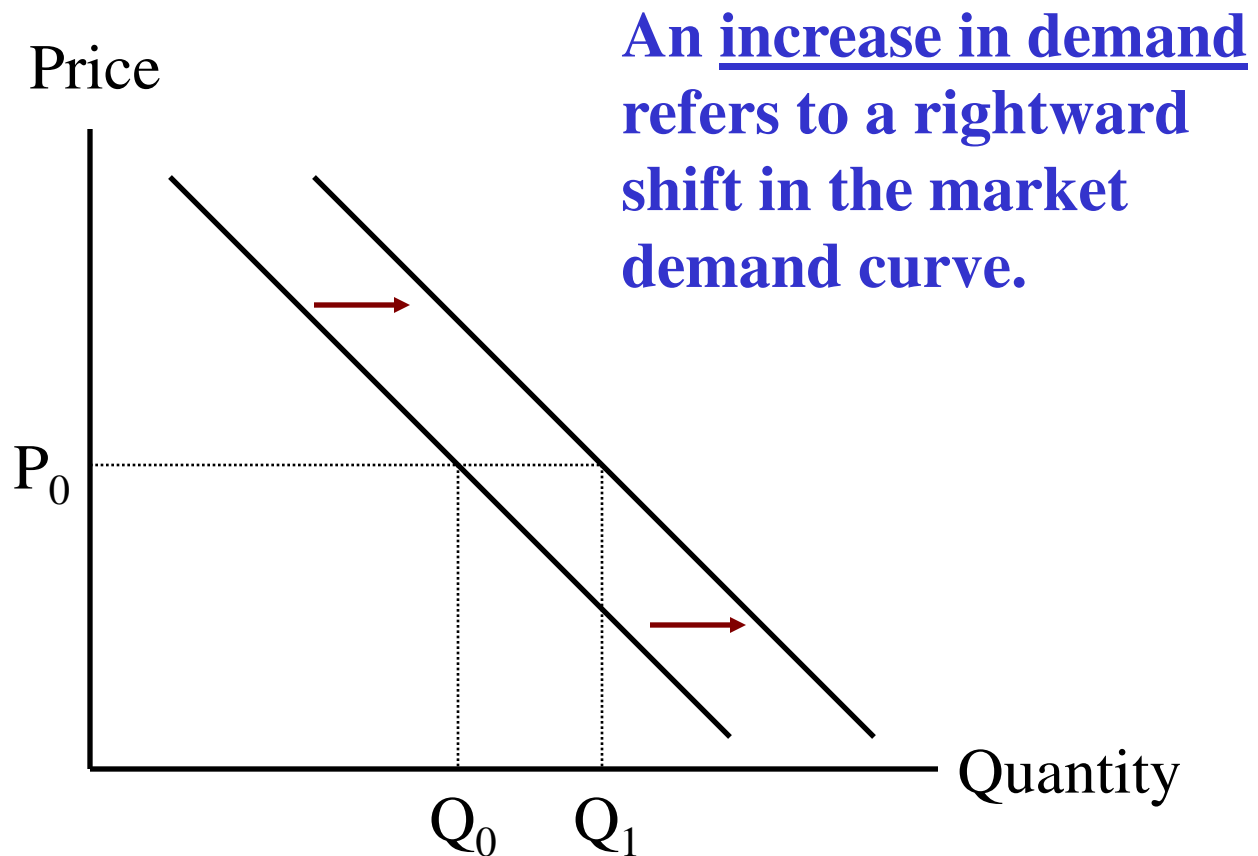
# Change in Quantity Demanded



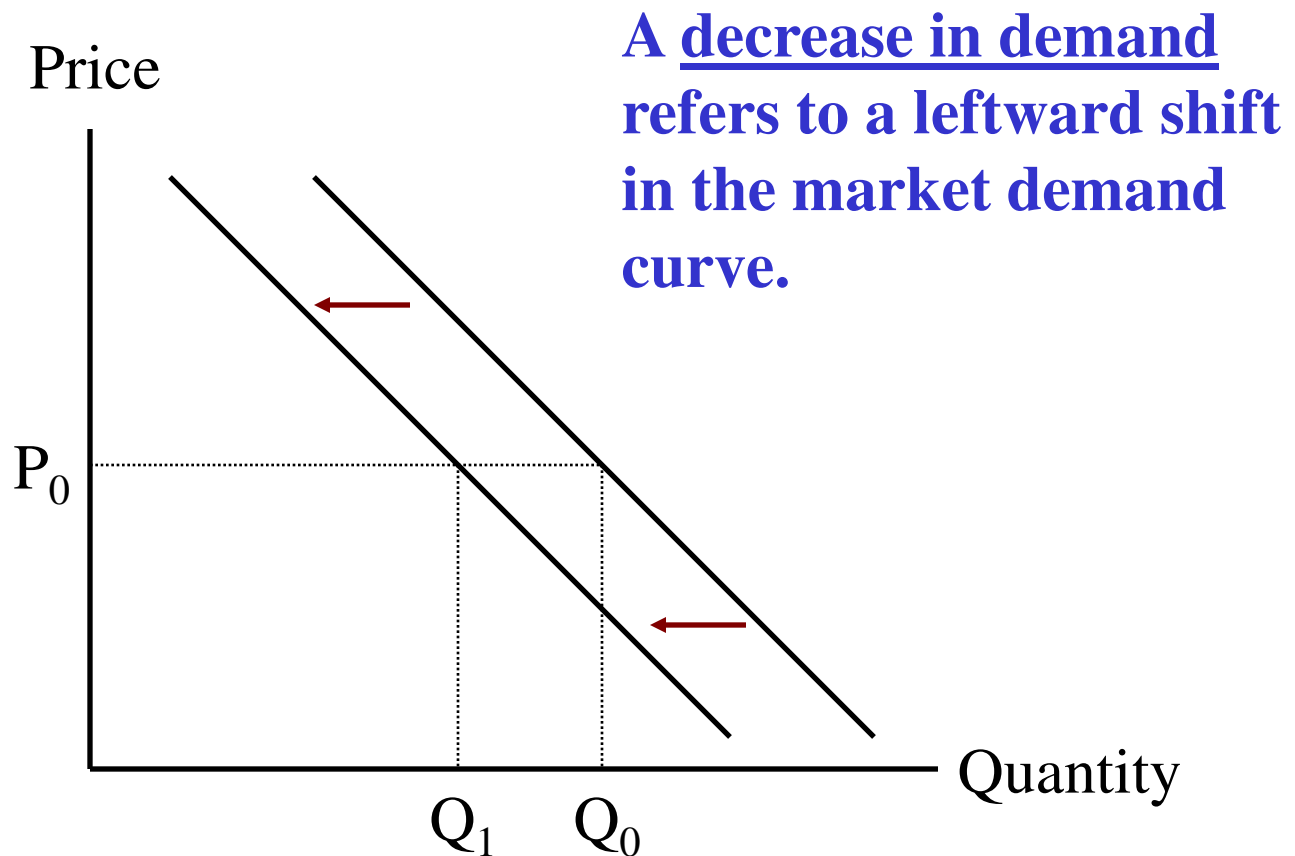
# Changes in Demand

- Change in Buyers' Tastes
- Change in Buyers Incomes
  - Normal Goods
  - Inferior Goods
- Change in the Number of Buyers
- Change in the Price of Related Goods
  - Substitute Goods
  - Complementary Goods

# Change in Demand

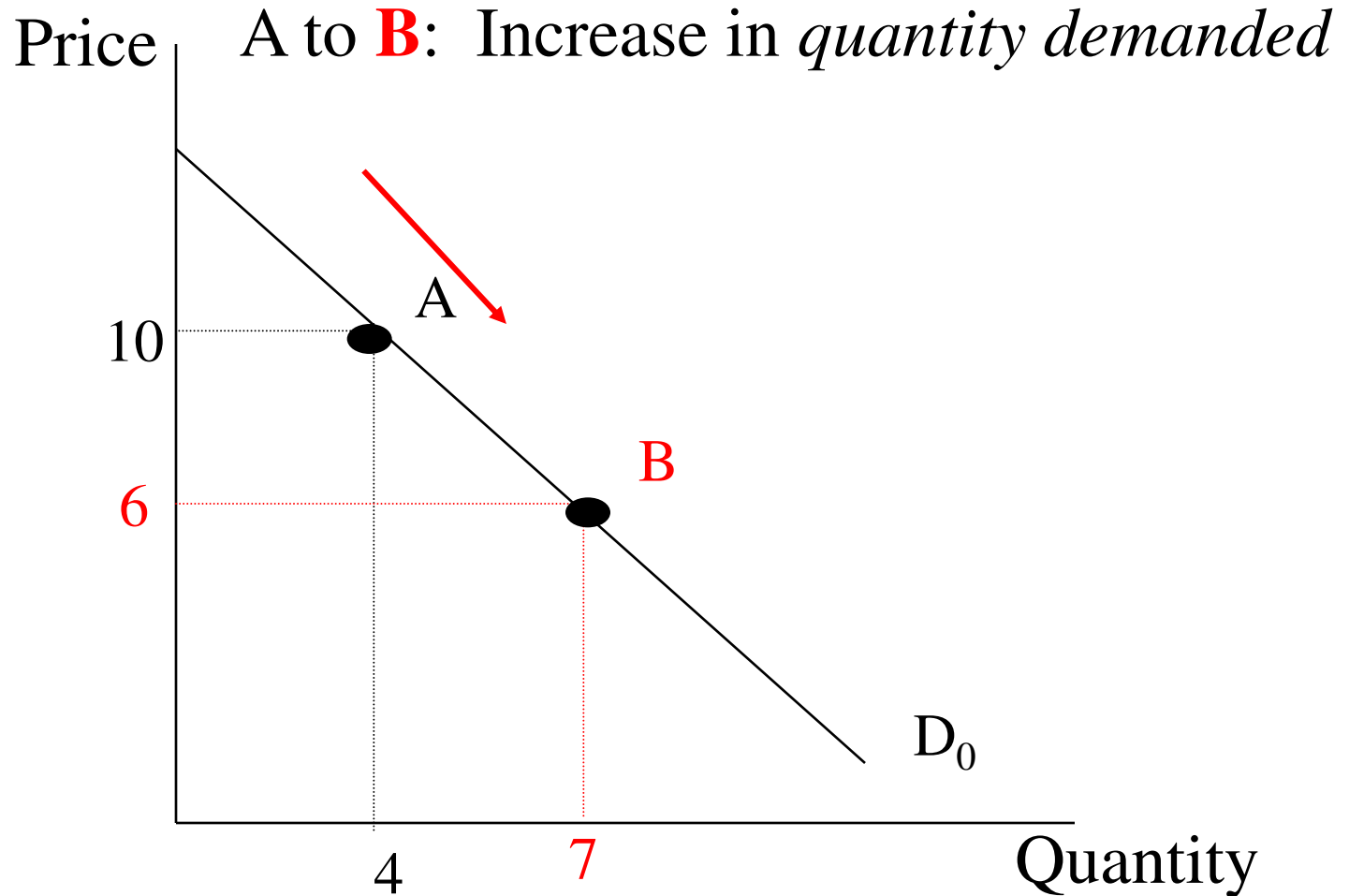


# Change in Demand



**What is the difference  
between a change in the  
quantity demanded and a  
change in demand?**

# Change in Quantity Demanded

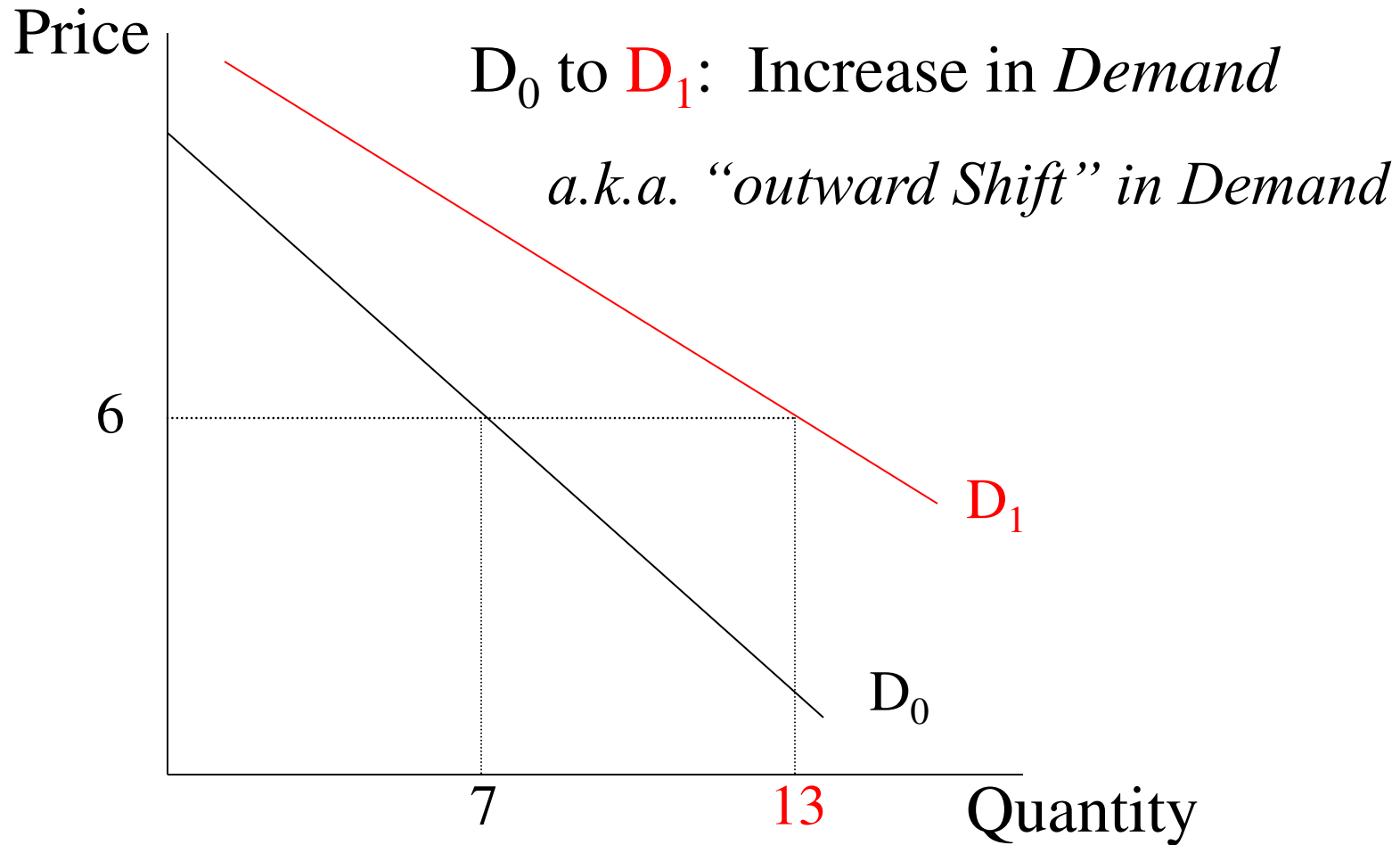


# **What Causes a Change in the Quantity Demanded?**

**Only one thing - a change in the  
price of the product!**



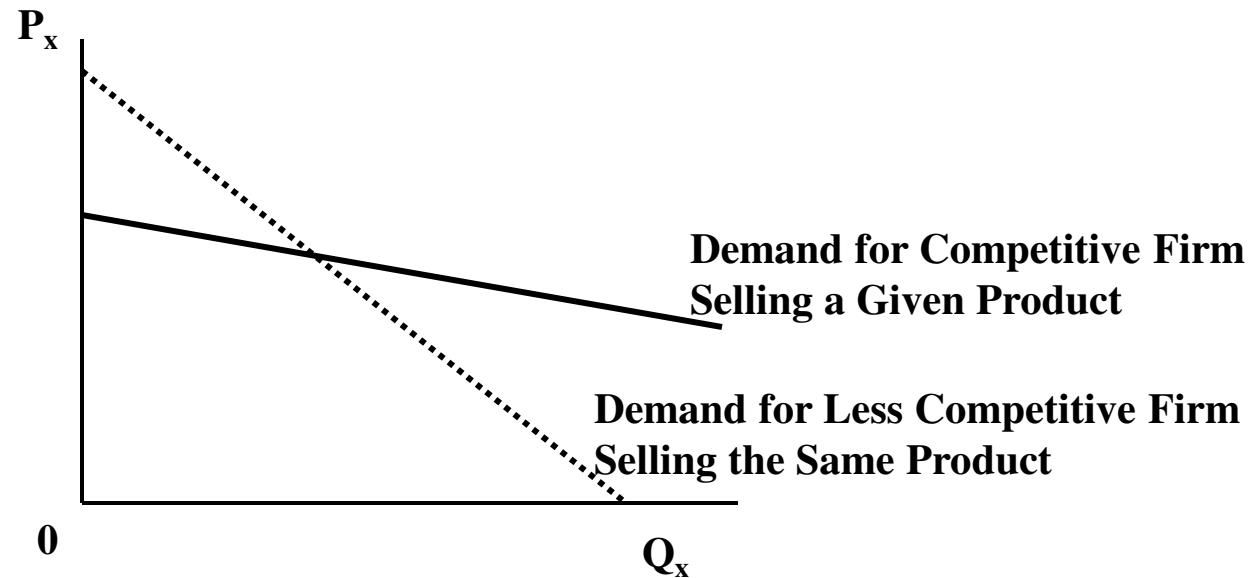
# Change in Demand



# What Causes a Change in Demand?

- **A change in one of the ceteris paribus conditions. What are they?**
  - **A change in the income of the consumer.**
  - **A change in the consumer's taste (the whole point of advertising).**
  - **A change in the price of a related product.**
    - **Substitutes**
    - **complements**
- **For the market, a change in the number of potential consumers.**

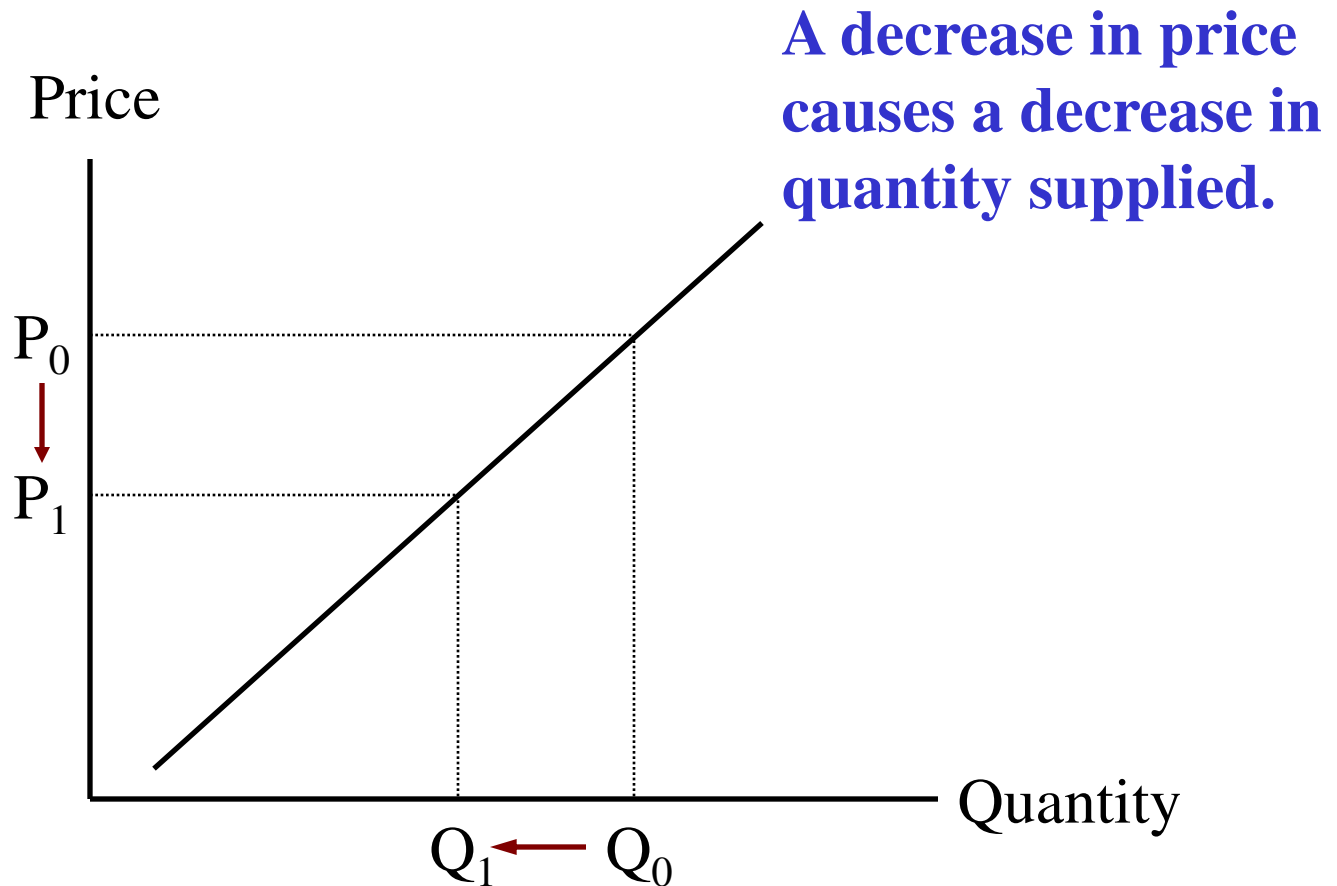
# The more competition, the less the slope of the demand curve.



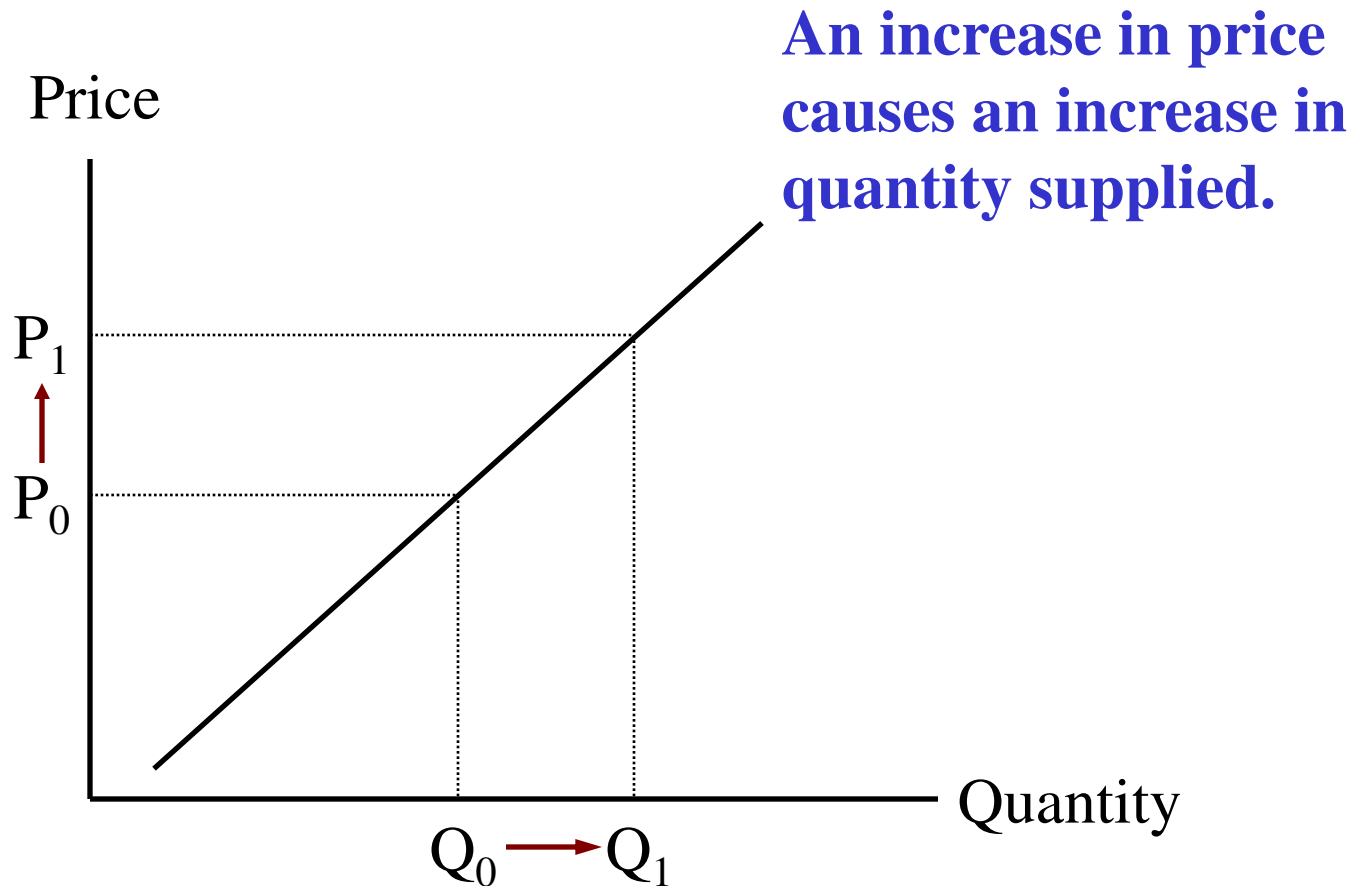
# Law of Supply

- A decrease in the price of a good, all other things held constant, will cause a decrease in the quantity supplied of the good.
- An increase in the price of a good, all other things held constant, will cause an increase in the quantity supplied of the good.

# Change in Quantity Supplied



# Change in Quantity Supplied

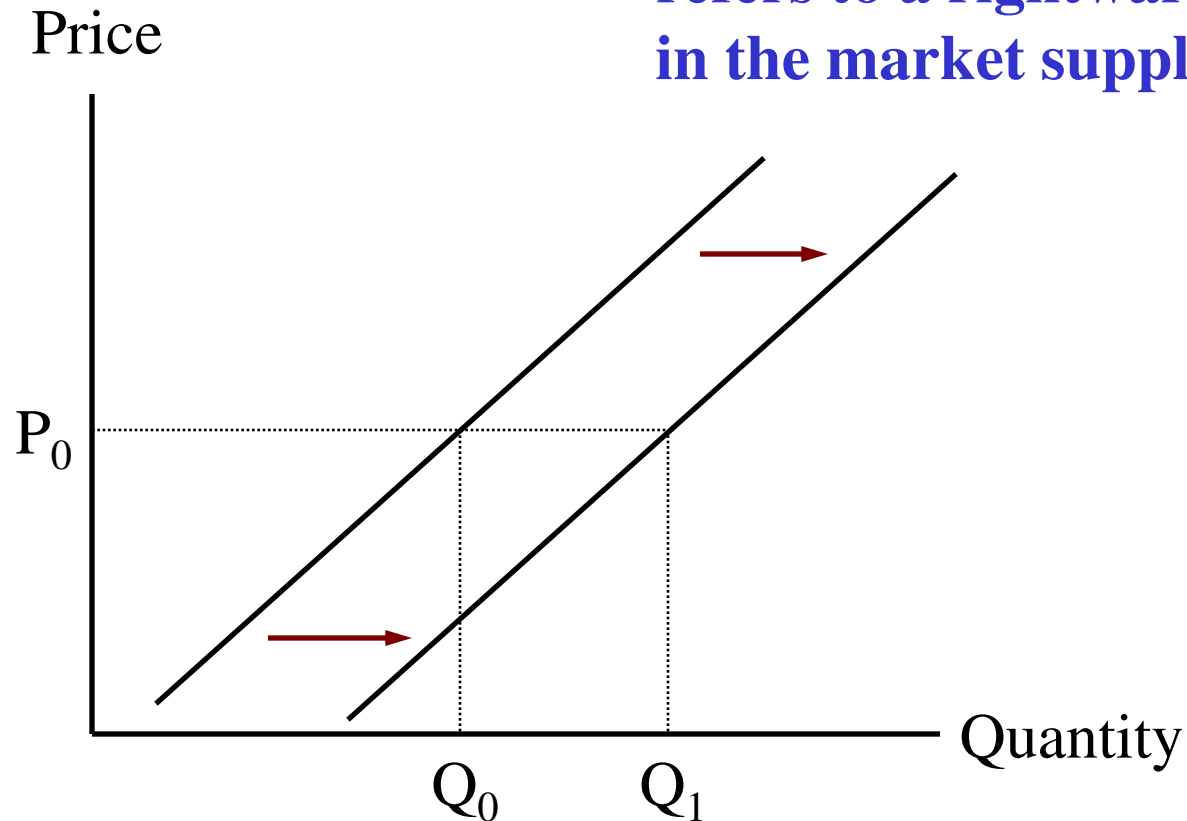


# Changes in Supply

- Change in Production Technology
- Change in Input Prices
- Change in the Number of Sellers

# Change in Supply

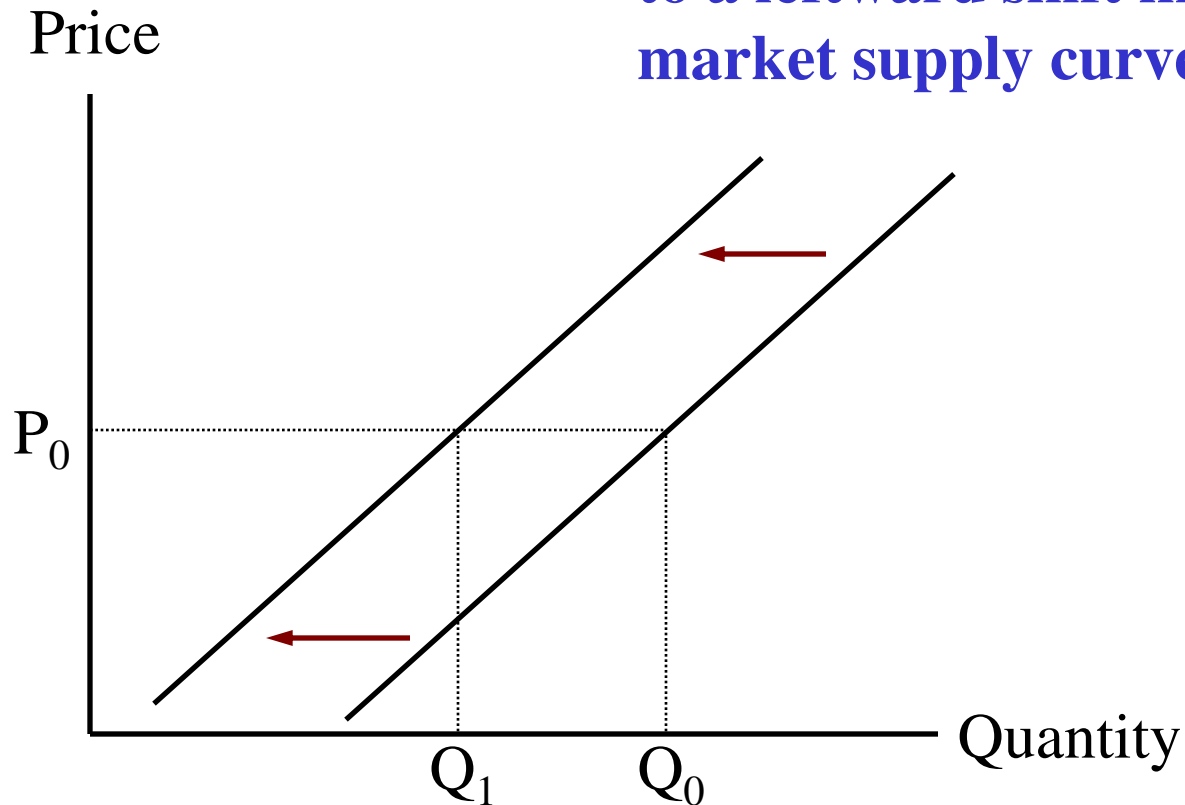
An increase in supply refers to a rightward shift in the market supply curve.





# Change in Supply

A decrease in supply refers to a leftward shift in the market supply curve.



# Supply Shifters

- **Input prices**
- **Technology or government regulations**
- **Number of firms**
- **Substitutes in production**
- **Taxes**
- **Producer expectations**

# The Supply Function

- An equation representing the supply curve:

$$Q_X^S = f(P_X, P_R, W, H)$$

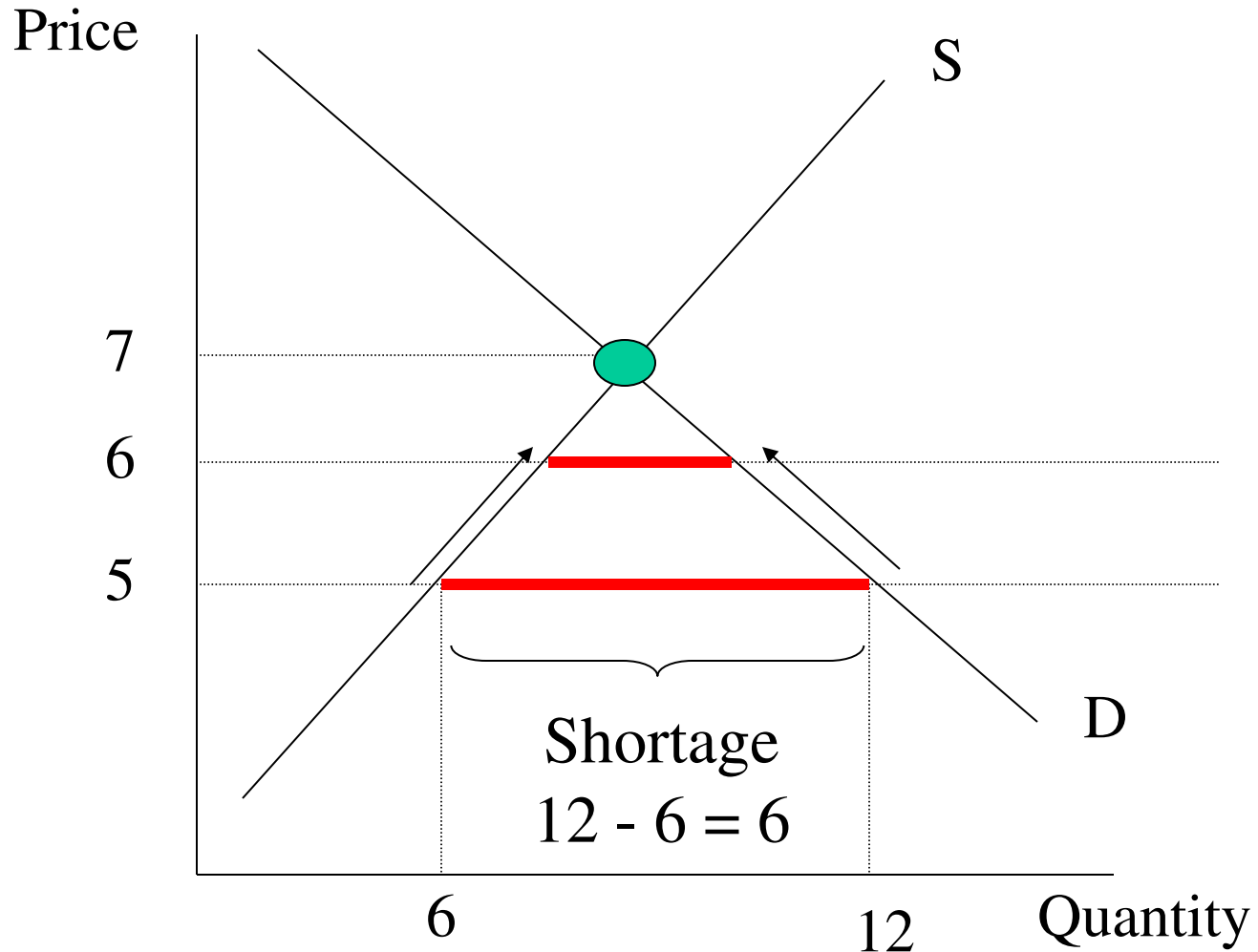
- $Q_X^S$  = quantity supplied of good X.
- $P_X$  = price of good X.
- $P_R$  = price of a related good
- $W$  = price of inputs (e.g., wages)
- $H$  = other variable affecting supply

# Market Equilibrium

- Balancing supply and demand

$$Q_x^s = Q_x^d$$

# If price is too low...



# If price is too high...

