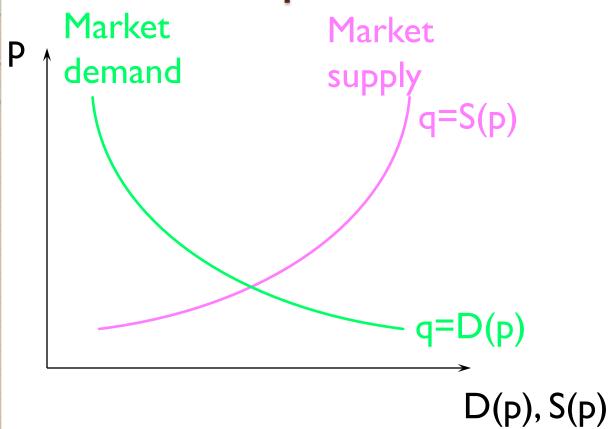
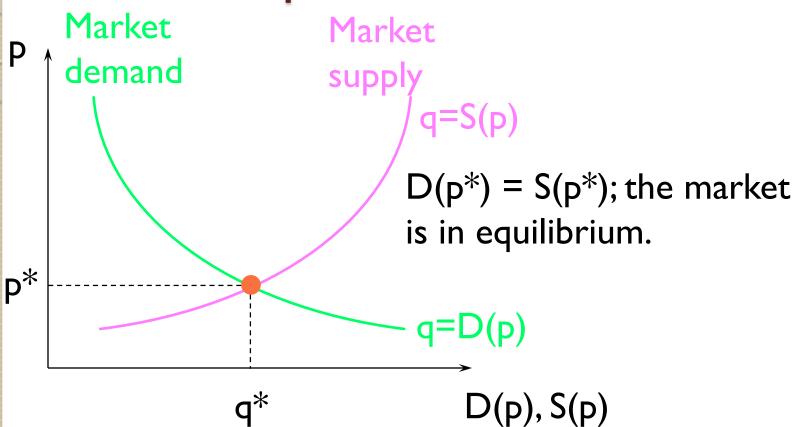
Chapter 9 Market Equilibrium

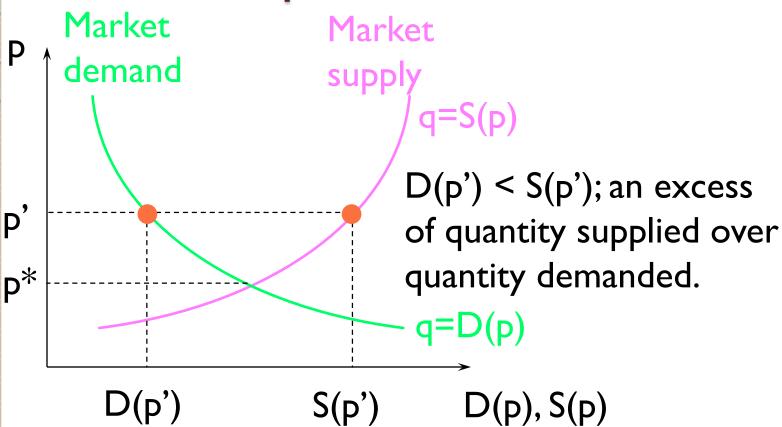
Topics to be Discussed

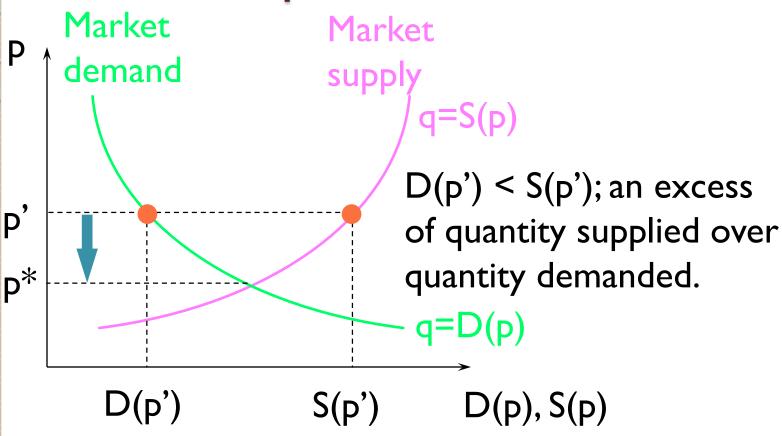
- Market equilibrium
- Quantity tax and equilibrium
- Tax incidence
- Deadweight loss

- A market is in equilibrium when total quantity demanded by buyers equals total quantity supplied by sellers.
- Also called "market is cleared"

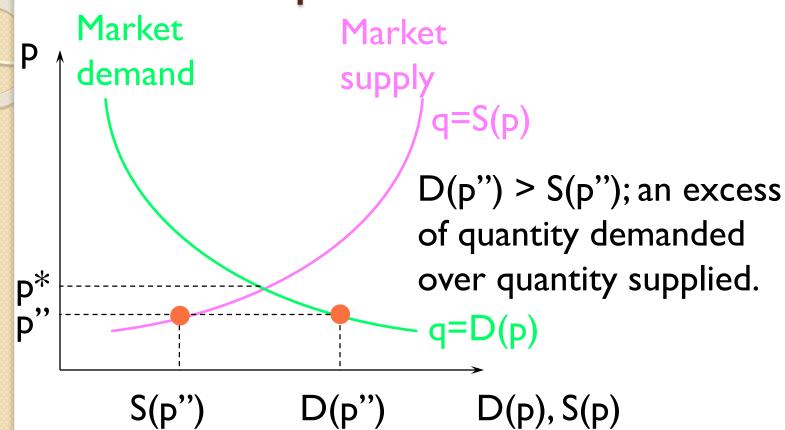


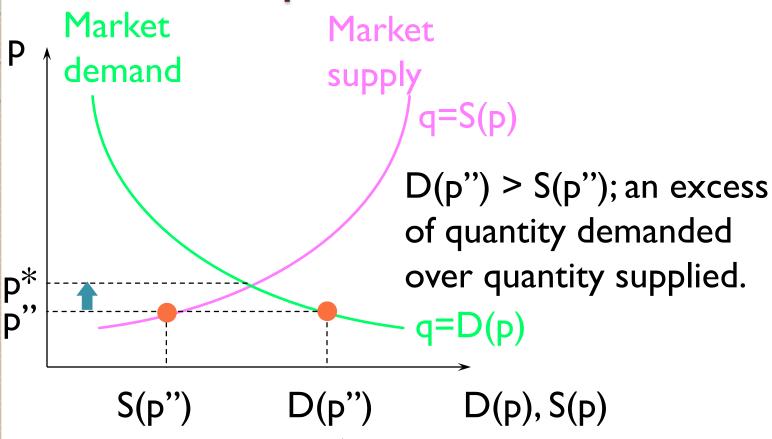






Market price must fall towards p*.





Market price must rise towards p*.

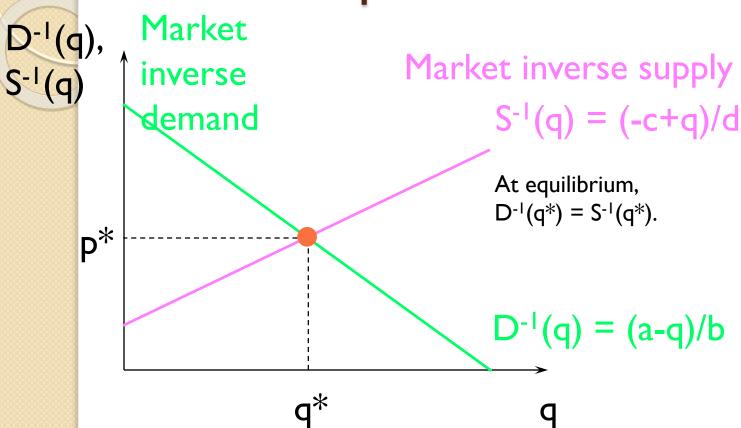
- We can calculate the market equilibrium price and quantity using D(p)=S(p)
- Can we calculate the market equilibrium using the inverse market demand and supply curves?
- Yes, it is the same calculation
- Pd(q)=Ps(q).

$$q = D(p) = a - bp \Leftrightarrow p = \frac{a - q}{b} = D^{-1}(q),$$

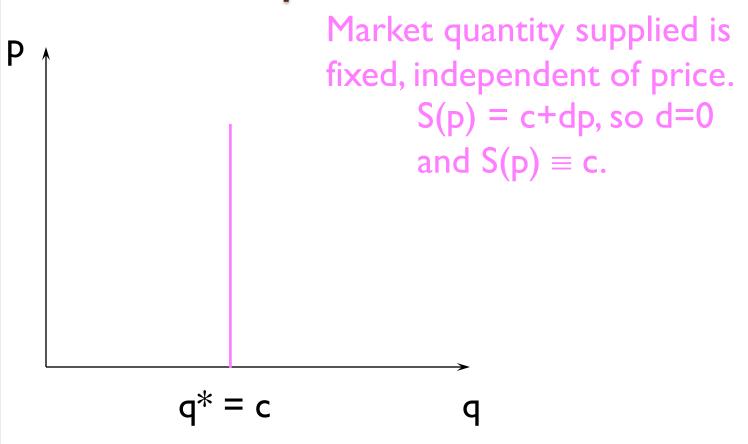
the equation of the inverse market demand curve. And

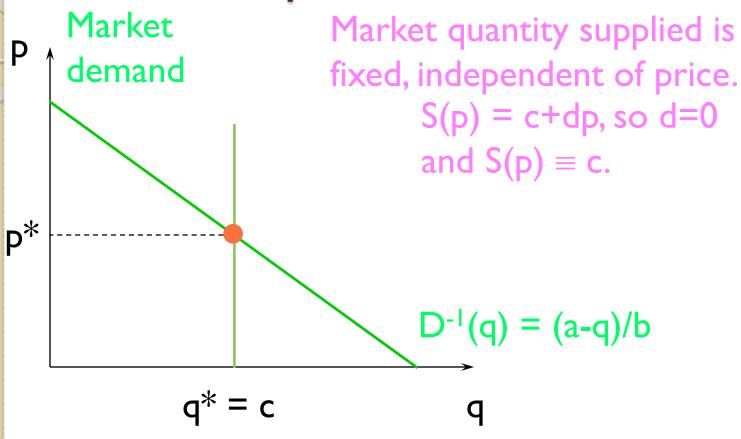
$$q = S(p) = c + dp \Leftrightarrow p = \frac{-c + q}{d} = S^{-1}(q),$$

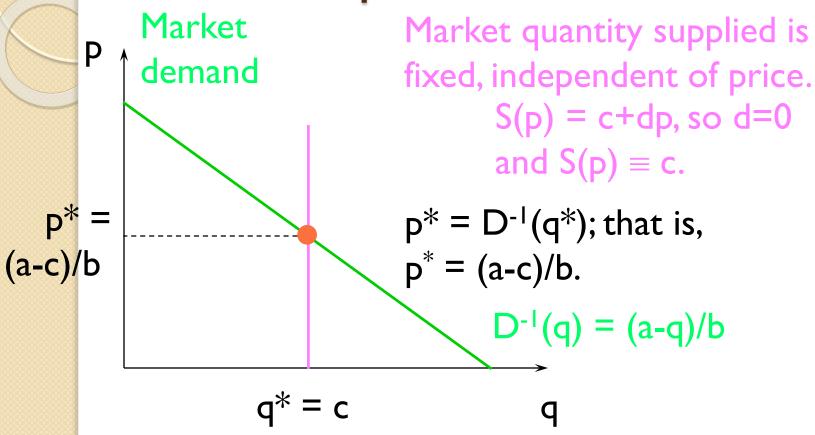
the equation of the inverse market supply curve.

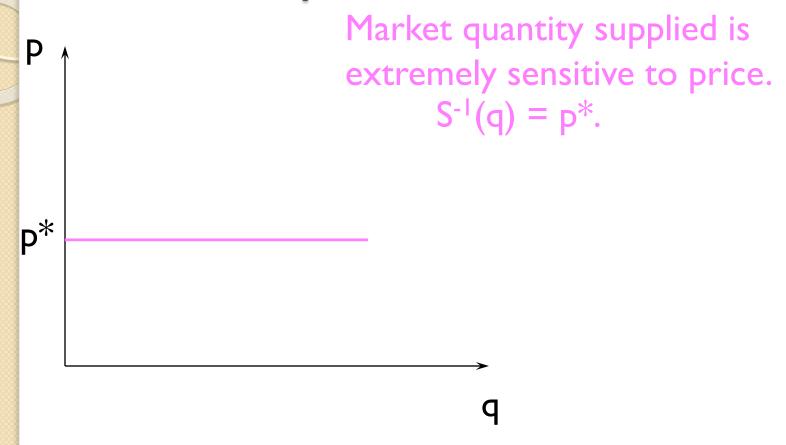


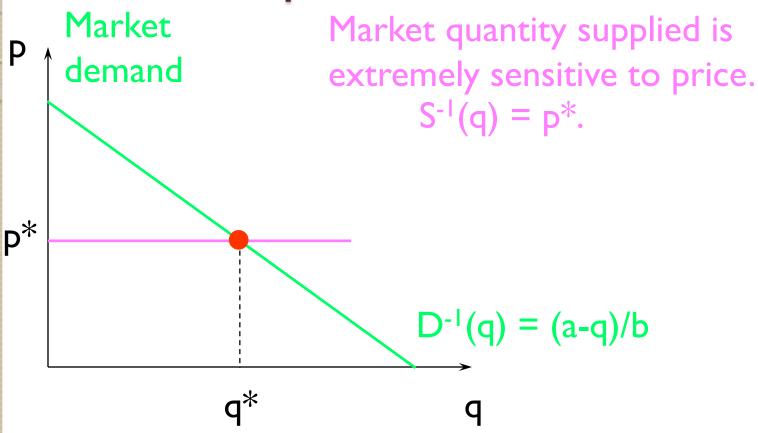
- Two special cases:
 - quantity supplied is fixed, independent of the market price, and
 - quantity supplied is extremely sensitive to the market price.











Comparative Statics

- Shifting demand curves
 - Income
 - Price of other products
- Shifting supply curves
 - Technology
- Taxes

- A quantity tax levied at a rate of \$t is a tax of \$t paid on each unit traded.
- If the tax is levied on sellers then it is an excise tax.
- If the tax is levied on buyers then it is a sales tax.

- What is the effect of a quantity tax on a market's equilibrium?
- How are prices affected?
- How is the quantity traded affected?
- Who pays the tax?
- How are gains-to-trade altered?

 A tax rate t makes the price paid by buyers, p_b, higher by t from the price received by sellers, p_s.

$$p_b - p_s = t$$

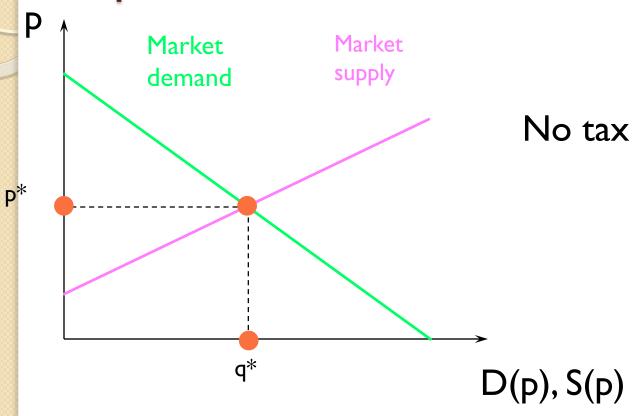
- Even with a tax the market must clear.
- l.e. quantity demanded by buyers at price p_b must equal quantity supplied by sellers at price p_s .

$$D(p_b) = S(p_s)$$

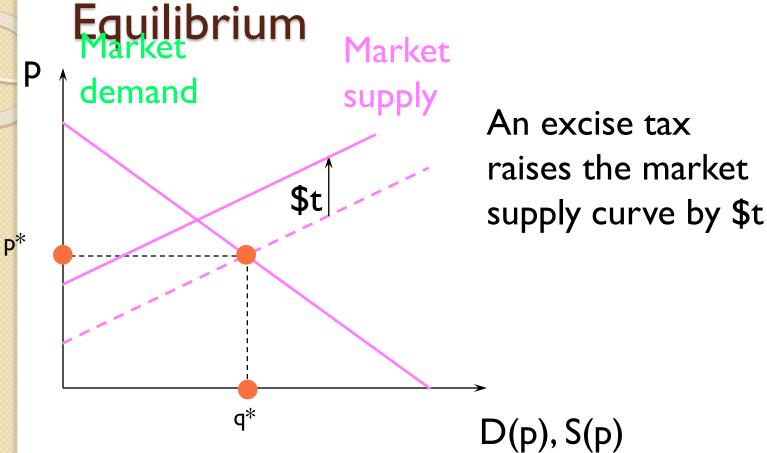
$$p_b - p_s = t$$
 and $D(p_b) = S(p_s)$

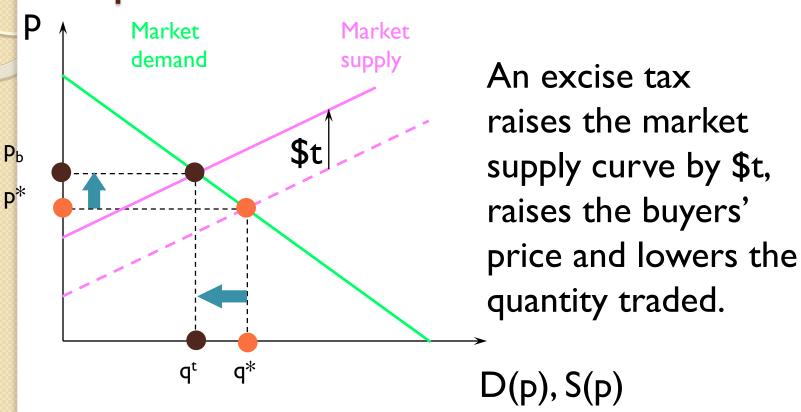
describe the market's equilibrium. Notice that these two conditions apply no matter if the tax is levied on sellers or on buyers.

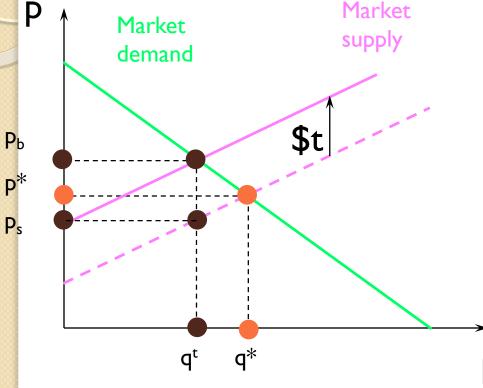
Hence, a sales tax rate \$t has the same effect as an excise tax rate \$t.



Quantity Taxes & Market



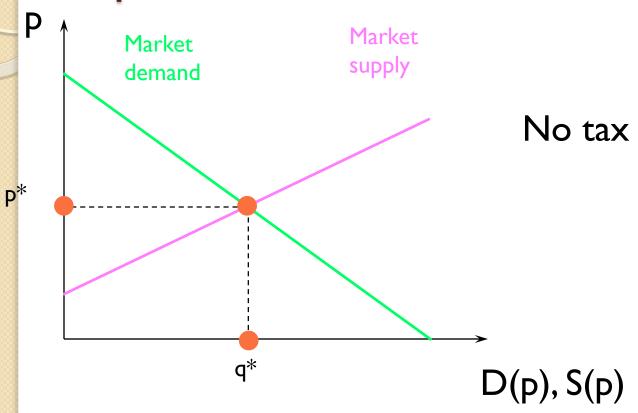


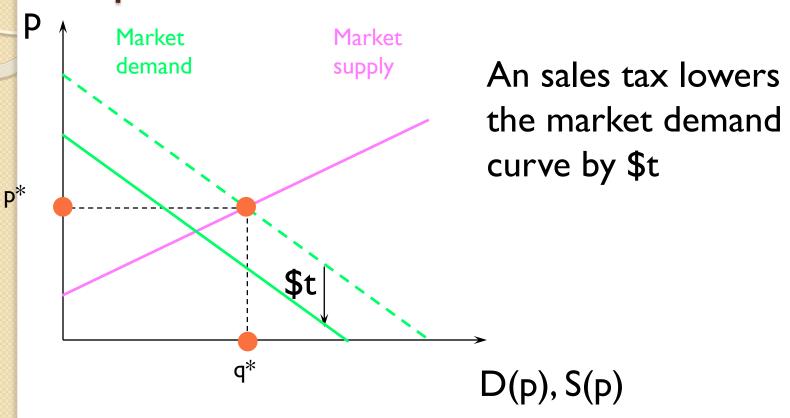


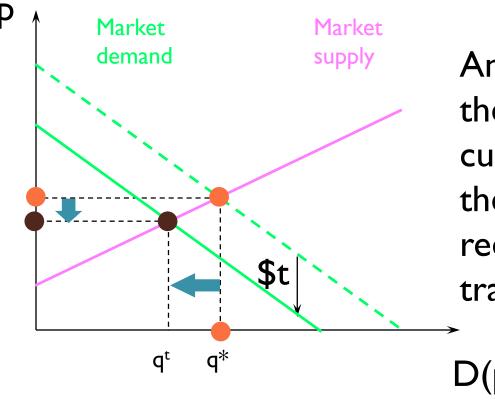
An excise tax raises the market supply curve by \$t, raises the buyers' price and lowers the quantity traded.

D(p), S(p)

And sellers receive only $p_s = p_b - t$.





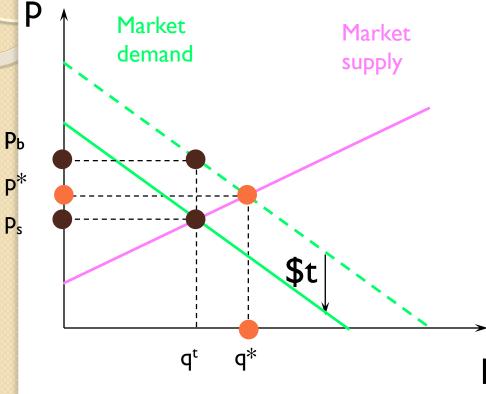


p*

Ps

An sales tax lowers the market demand curve by \$t, lowers the sellers' price and reduces the quantity traded.

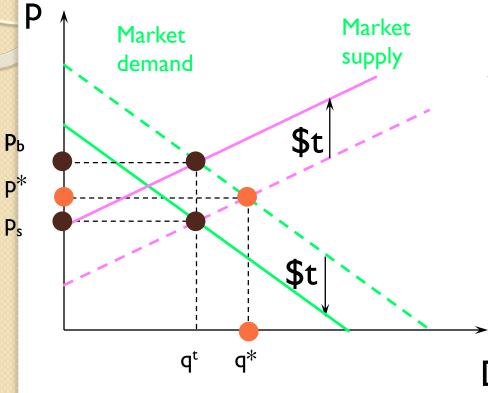
D(p), S(p)



An sales tax lowers the market demand curve by \$t, lowers the sellers' price and reduces the quantity traded.

D(p), S(p)

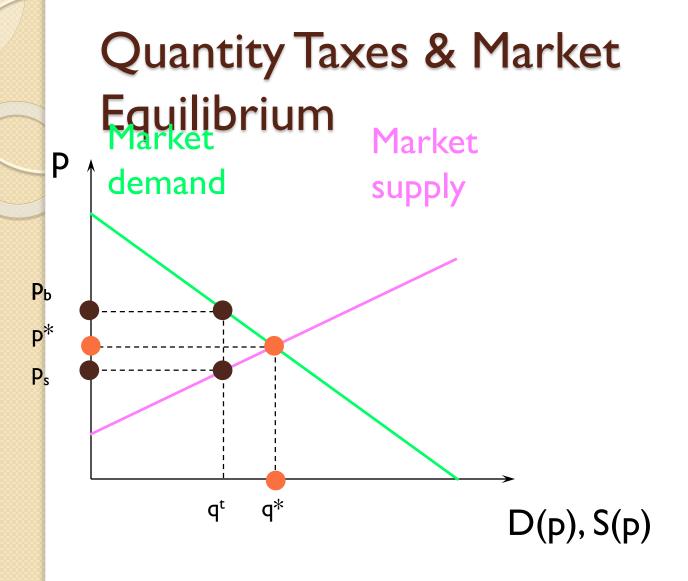
And buyers pay $p_b = p_s + t$.

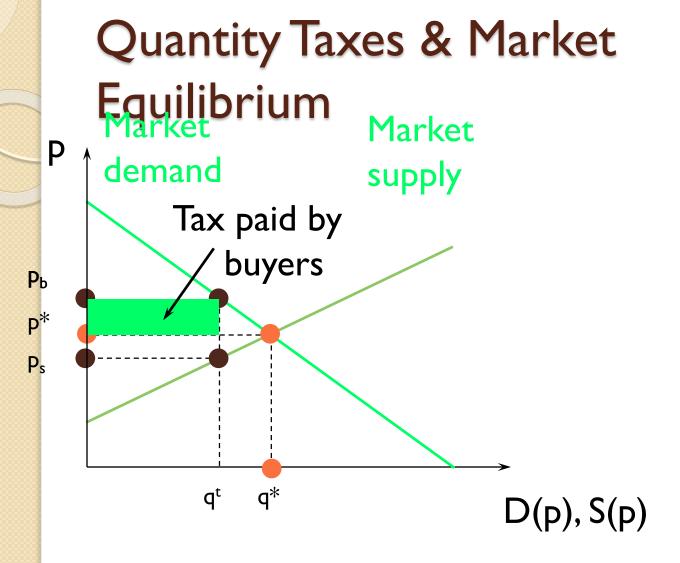


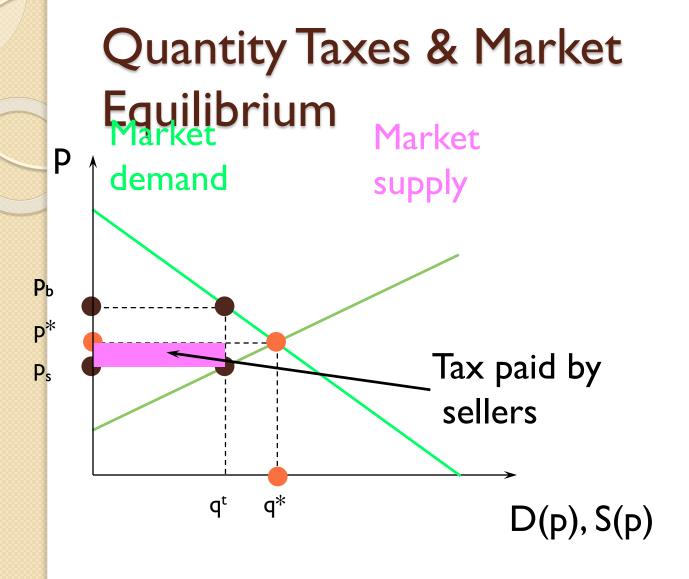
A sales tax levied at rate \$t has the same effects on the market's equilibrium as does an excise tax levied at rate \$t.

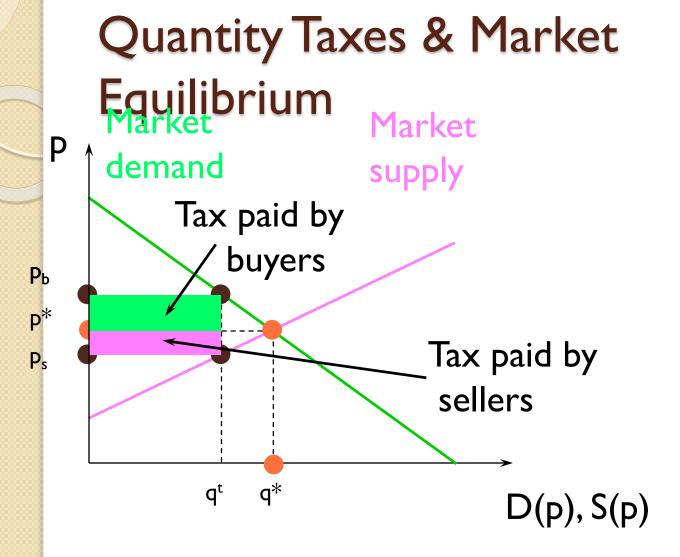
D(p), S(p)

- Who pays the tax of \$t per unit traded?
- The division of the \$t between buyers and sellers is the incidence of the tax
- The incidence of a quantity tax depends upon the own-price elasticities of demand and supply



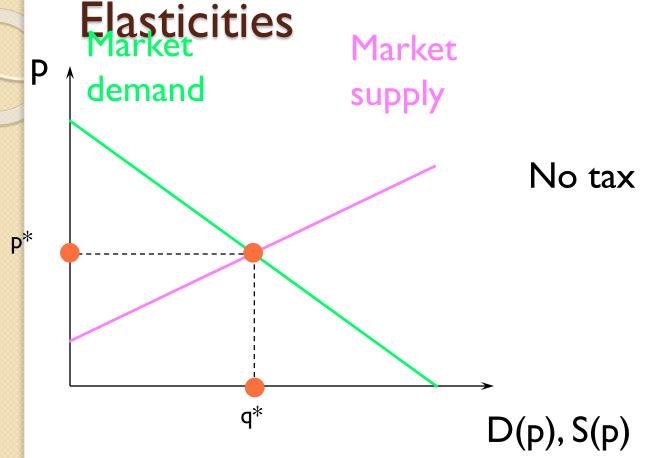






Deadweight Loss and Own-Price Elasticities

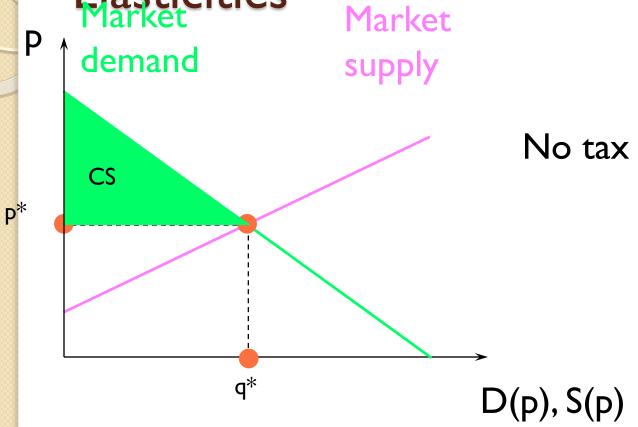
- A quantity tax imposed on a competitive market reduces the quantity traded and so reduces gains-to-trade (i.e. the sum of Consumers' and Producers' Surpluses).
- The lost total surplus is the tax's deadweight loss, or excess burden.

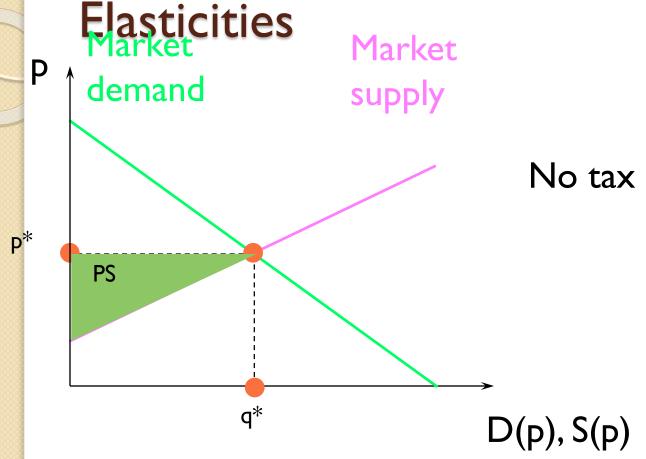


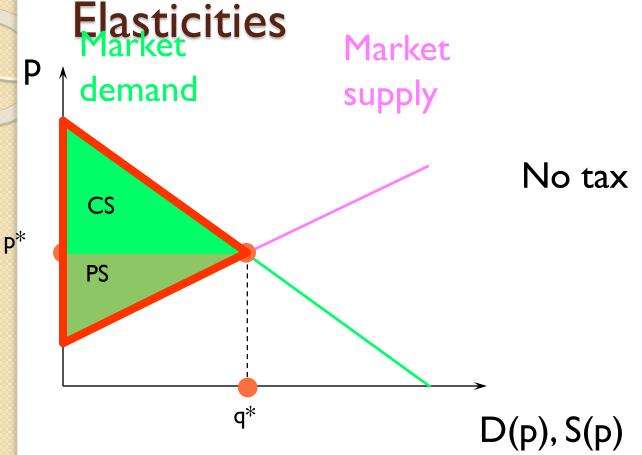
Pareto Efficiency

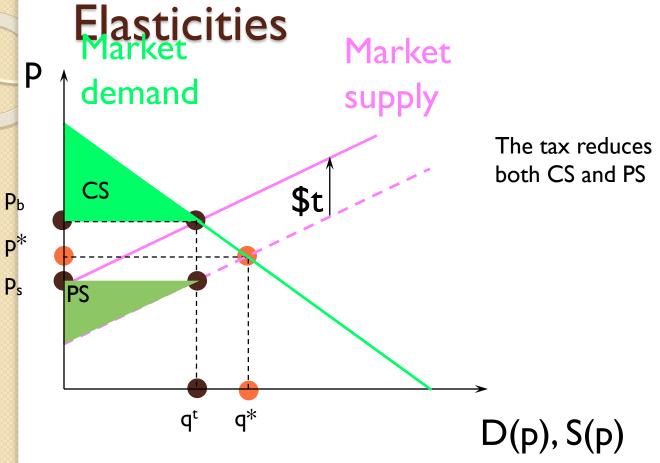
- At the market equilibrium q* we have a Pareto efficient outcome: at q*, the willingness to pay for an extra unit is just equal to the willingness to supply an extra unit at that price
- Q* maximizes the social welfare (CS+PS)

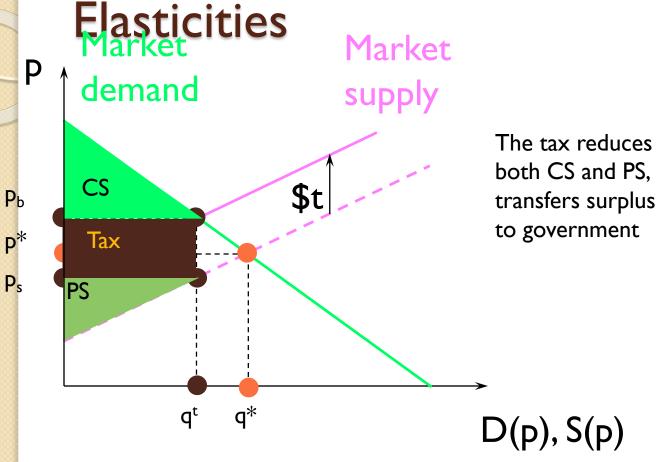
Deadweight Loss and Own-Price Flasticities Market demand Supply

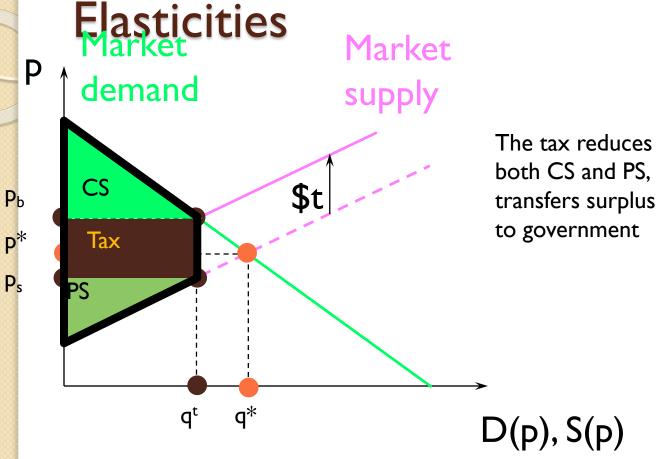


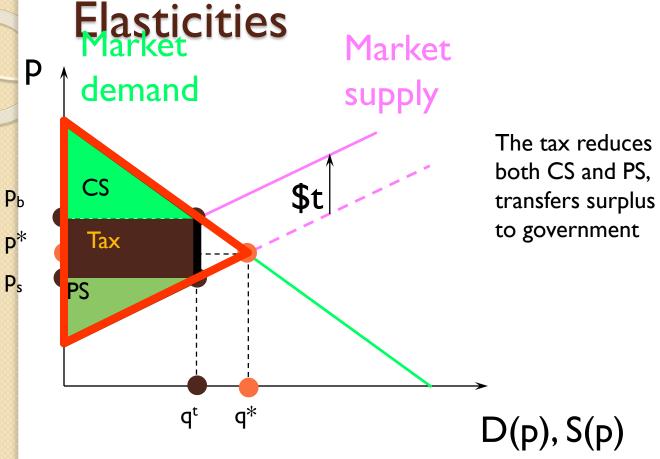


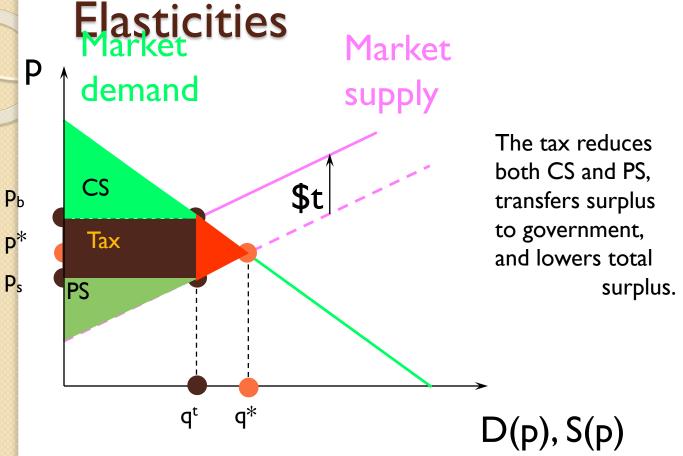


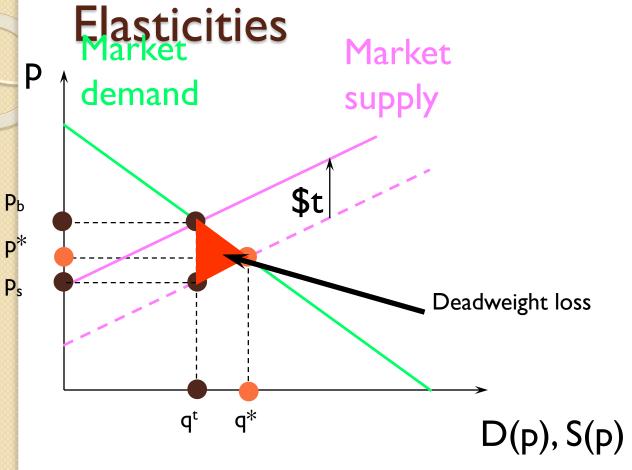


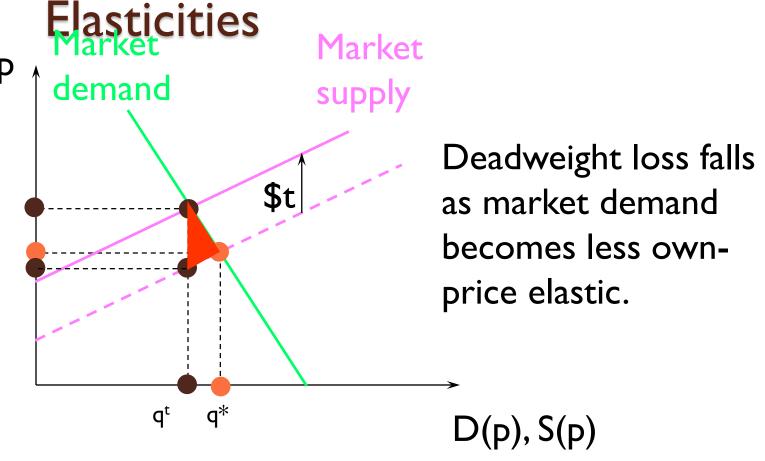








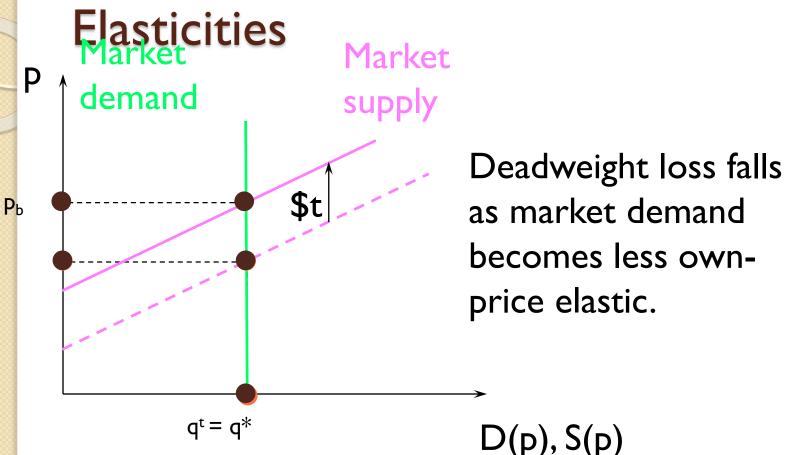




Pb

p*

Ps



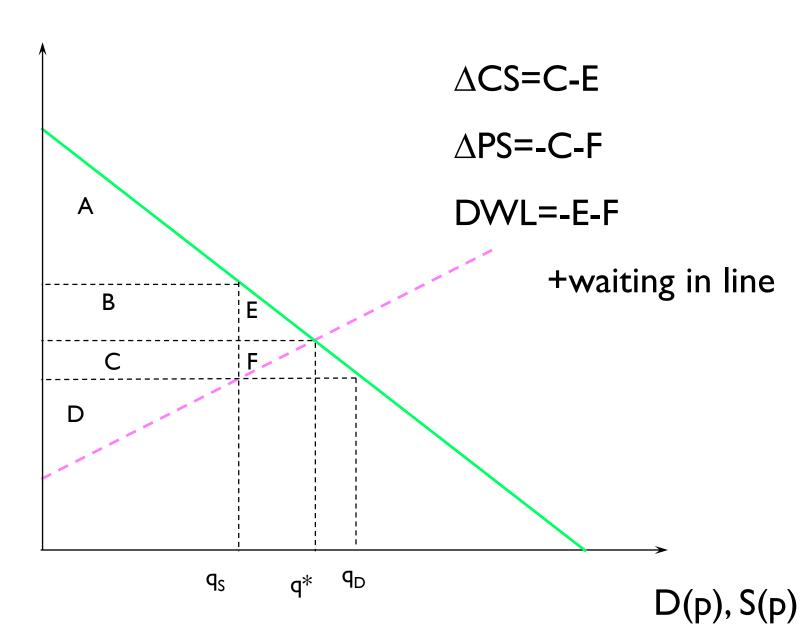
When $\varepsilon_D = 0$, the tax causes no deadweight loss.

 $p_s = p^*$

Deadweight Loss and Own-Price Elasticities

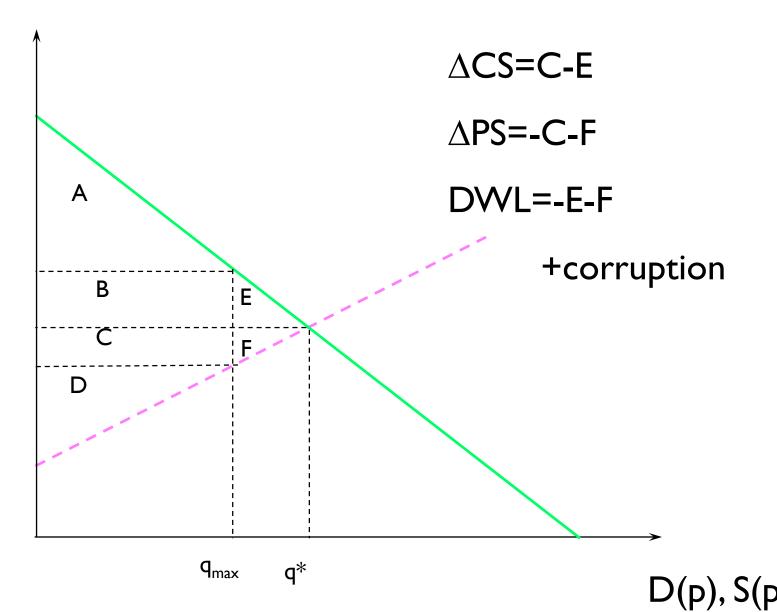
- Deadweight loss due to a quantity tax rises as either market demand or market supply becomes more own-price elastic.
- If either $\varepsilon_D = 0$ or $\varepsilon_S = 0$ then the deadweight loss is zero.

Price control



p*
P_{max}

Price control with rationing



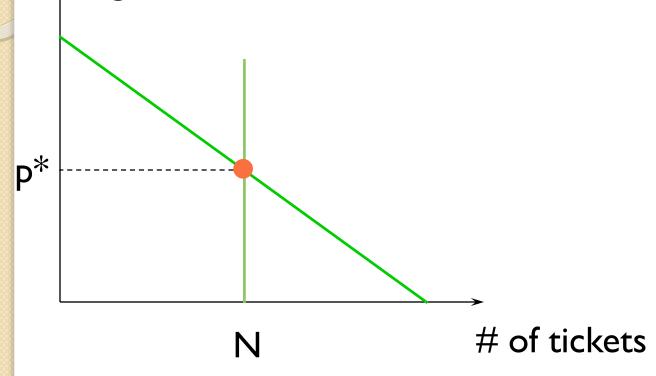
P*
P_{max}

Application: Waiting in Line

- Waiting in line is an alternative (non-market) way of allocating scarce resources
- Is it efficient compared to market mechanism?
- Suppose there is a championship basketball game and tickets are free but limited
- The tickets will be distributed according to the principle of "first-come-first served"
- Willingness to pay vs. willingness to wait

Waiting in Line

Willingness to wait



Why is it so different?

- Waiting time is a private cost and provides no benefits to suppliers
- Waiting time is a pure deadweight loss
- Allocation by waiting time will leave room for gain from trade
- Market price measures both private cost and social benefit
- Market mechanism assures that scarce resources are allocated to mostproductive uses

Announcement

- Problem Set 3, due on May 14
- Chapter_7_8_new

Chapter 10

Market Power: Monopoly and

Monopsony

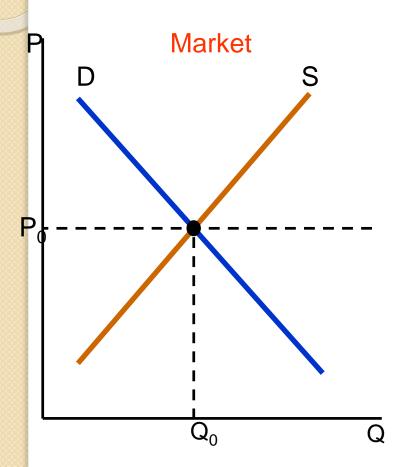
Topics to be Discussed

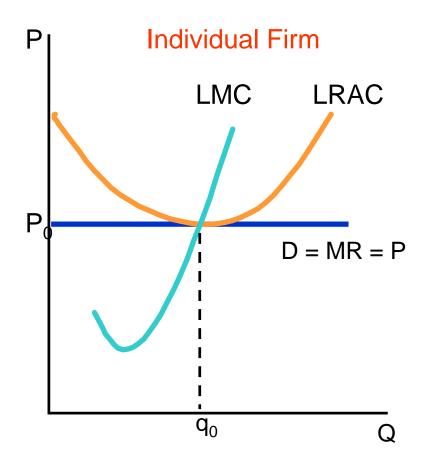
- Monopoly and Monopoly Power
- Sources of Monopoly Power
- The Social Costs of Monopoly Power
- Monopsony and Monopsony Power
- Limiting Market Power: The Antitrust Laws

Review of Perfect Competition

- P = MC = AC
- Normal profits or zero economic profits in the long run
- Large number of buyers and sellers
- Homogenous product
- Perfect information
- Firm is a price taker

Review of Perfect Competition





Monopoly

- Monopoly
 - I. One seller many buyers
 - 2. One product (no good substitutes)
 - 3. Barriers to entry
 - 4. Price Maker

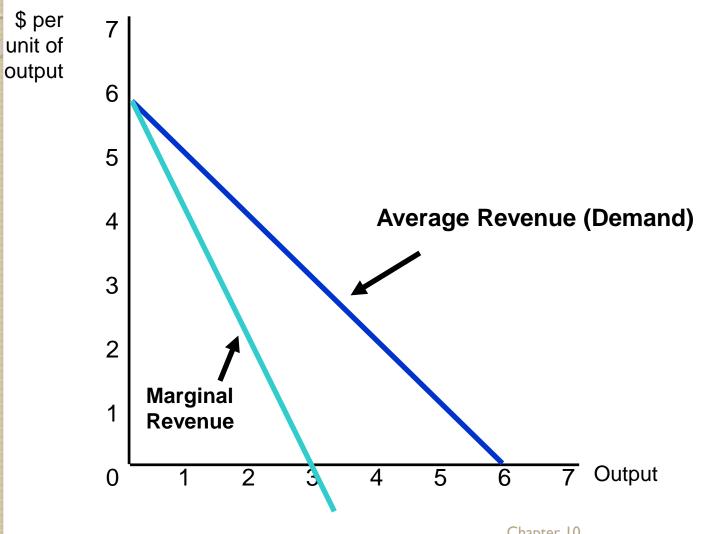
Monopoly

- The monopolist is the supply-side of the market and has complete control over the amount offered for sale
- Monopolist controls price but must consider consumer demand
- Profits will be maximized at the level of output where marginal revenue equals marginal cost

Average and Marginal Revenue

- The monopolist's average revenue, price received per unit sold, is the market demand curve
- Monopolist also needs to find marginal revenue, change in revenue resulting from a unit change in output
- MR is generally lower than AR. Why?

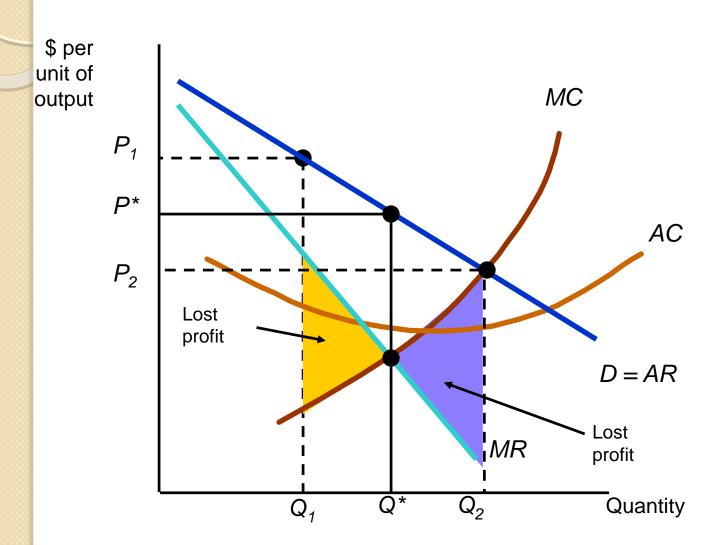
Average and Marginal Revenue



Monopoly

- Observations
 - 1. To increase sales the price must fall
 - 2. MR < P
 - 3. Compared to perfect competition
 - No change in price to change sales
 - MR = P

Monopolist's Output Decision



Monopoly: An Example

$$Cost = C(Q) = 50 + Q^{2}$$

$$MC = \frac{\Delta C}{\Delta Q} = 2Q$$

Demand:
$$P(Q) = 40 - Q$$

 $R(Q) = P(Q)Q = 40Q - Q^{2}$
 $MR = \frac{\Delta R}{\Delta Q} = 40 - 2Q$

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Monopoly: An Example

$$MC = MR$$
$$2Q = 40 - 2Q$$

$$4Q = 40$$

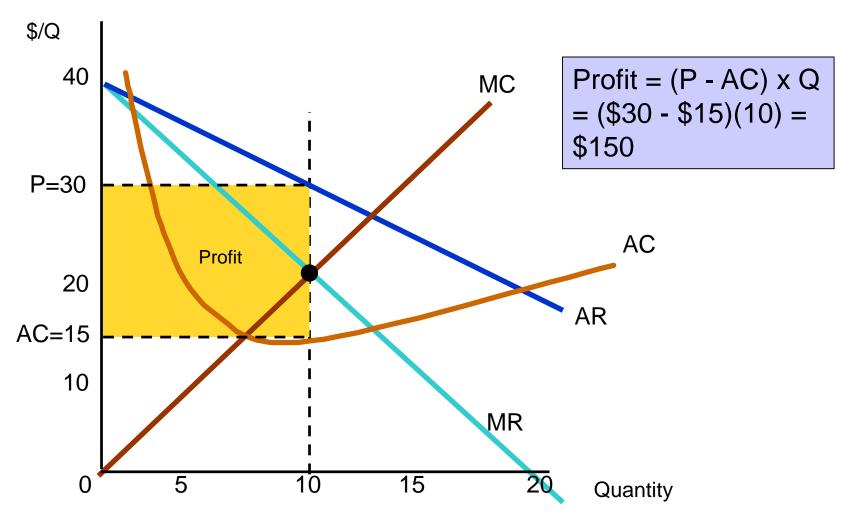
$$Q = 10$$

$$P(Q) = 40 - Q$$

$$P(Q) = 40 - 10$$

$$P(Q) = 30$$

Example of Profit Maximization



Monopoly

- A Rule of Thumb for Pricing
 - We want to translate the condition that marginal revenue should equal marginal cost into a rule of thumb that can be more easily applied in practice
 - Looking at Marginal Revenue we can see that it has two components

1.
$$MR = \frac{\Delta R}{\Delta Q} = \frac{\Delta (PQ)}{\Delta Q}$$

- Producing one more unit brings in revenue (I)(P) = P
- With downward sloping demand, producing and selling one more unit results in small drop in price $\Delta P/\Delta Q$
 - Reduces revenue from all units sold, change in revenue: $Q(\Delta P/\Delta Q)$

Chapter 10 7

$$MR = P(Q) + P'(Q)Q$$

$$MR = P(Q) \left[1 + \frac{1}{E_d} \right]$$

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 π is maximized where MR = MC

$$P + P \begin{bmatrix} 1 \\ E_D \end{bmatrix} = MC$$

$$\frac{\boldsymbol{P} - \boldsymbol{M}\boldsymbol{C}}{\boldsymbol{P}} = -\frac{1}{\boldsymbol{E}_{\boldsymbol{D}}}$$

$$P = \frac{MC}{1 + (1/E_D)}$$

- (P MC)/P is the markup over MC as a percentage of price
- The markup should equal the inverse of the elasticity of demand
- Price is expressed directly as the markup over marginal cost

$$9. P = \frac{MC}{1 + \left(\frac{1}{E_d}\right)}$$

Assume

$$E_d = -4$$
 $MC = 9$

$$P = \frac{9}{1 + (1/4)} = \frac{9}{.75} = $12$$

Monopoly

- Monopoly pricing compared to perfect competition pricing:
 - Monopoly
 - P > MC
 - Price is larger than MC by an amount that depends inversely on the elasticity of demand
 - Perfect Competition
 - P = MC
 - Demand is perfectly elastic, so P=MC

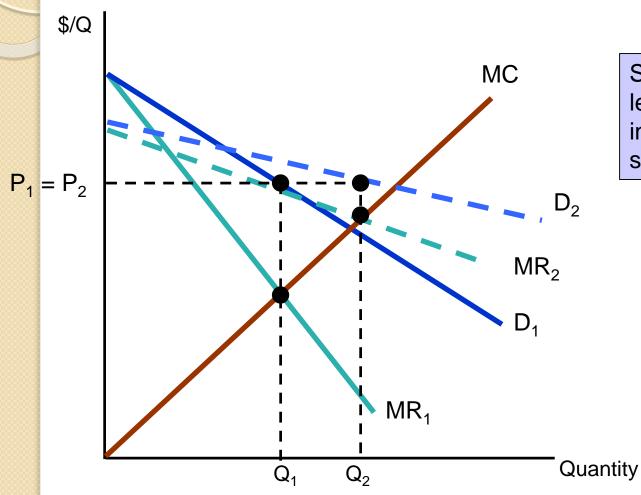
Monopoly

- If demand is very elastic, there is little benefit to being a monopolist
- The larger the elasticity, the closer to a perfectly competitive market
- Notice a monopolist will never produce a quantity in the inelastic portion of demand curve
 - In inelastic portion, can increase revenue by decreasing quantity and increasing price

Shifts in Demand

- In perfect competition, the market supply curve is determined by marginal cost
- For a monopoly, output is determined by marginal cost and the shape of the demand curve
 - There is no supply curve for monopolistic market

Shifts in Demand

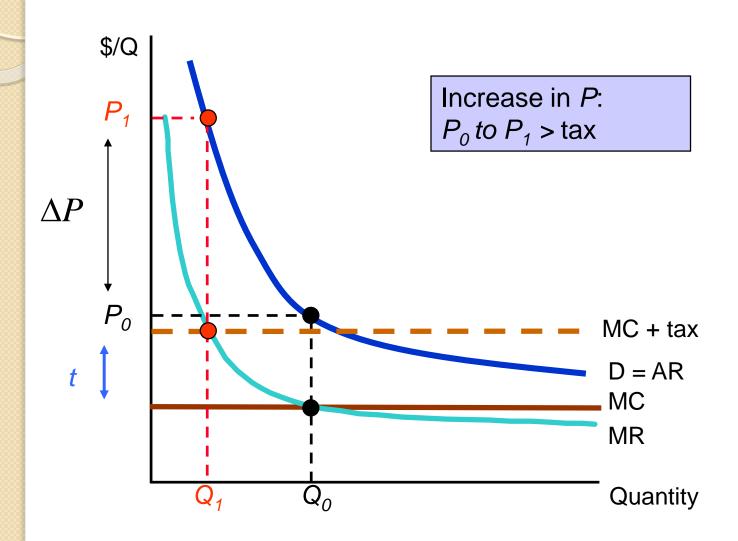


Shift in demand leads to change in quantity but same price

The Effect of a Tax

- In competitive market, a per-unit tax causes price to rise by less than tax: burden is shared by producers and consumers
- Under monopoly, price can sometimes rise by more than the amount of the tax
- To determine the impact of a tax:
 - t = specific tax
 - MC = MC + t

Effect of Excise Tax on Monopolist



Effect of Excise Tax on Monopolist

- The amount the price increases with implementation of a tax depends on elasticity of demand
- Price may or may not increase by more than the tax
- In a competitive market, the price cannot increase by more than tax
- Profits for monopolist will fall with a tax

- For some firms, production takes place in more than one plant, each with different costs
- Firm must determine how to distribute production between both plants
 - I. Production should be split so that the MC in the plants is the same
 - Output is chosen where MR=MC. Profit is therefore maximized when MR=MC at each plant.

- We can show this algebraically:
 - Q_I and C_I is output and cost of production for Plant I
 - Q₂ and C₂ is output and cost of production for Plant 2
 - $Q_T = Q_1 + Q_2$ is total output
 - Profit is then:

$$\pi = P(Q_T) Q_T - C_1(Q_1) - C_2(Q_2)$$

 Firm should increase output from each plant until the additional profit from last unit produced at Plant I equals 0

$$\frac{\partial \pi}{\partial Q_1} = \frac{\partial (PQ_T)}{\partial Q_1} - \frac{\partial C_1}{\partial Q_1} = 0$$

$$MR - MC_1 = 0$$

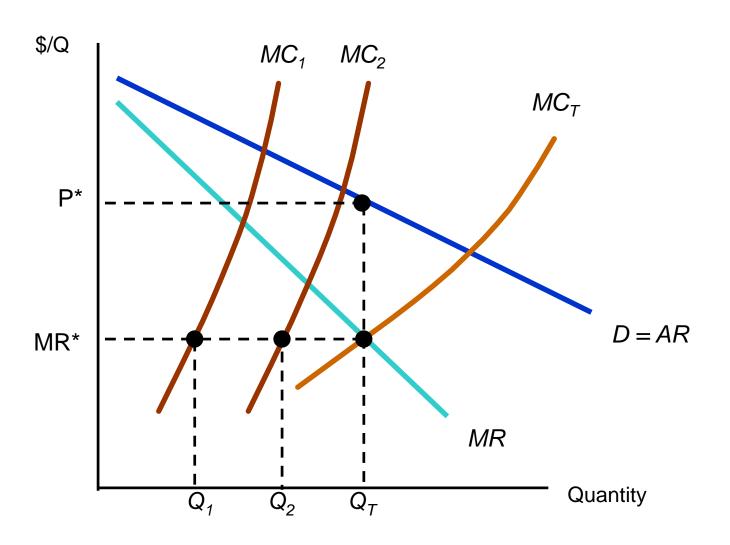
$$MR = MC_1$$

- We can show the same for Plant 2
- Therefore, we can see that the firm should choose to produce where

$$MR = MC_1 = MC_2$$

- We can show this graphically
 - MR = MC_T gives total output
 - This point shows the MR for each firm
 - Where MR crosses MC₁ and MC₂ shows the output for each firm

Production with Two Plants



Measuring Monopoly Power

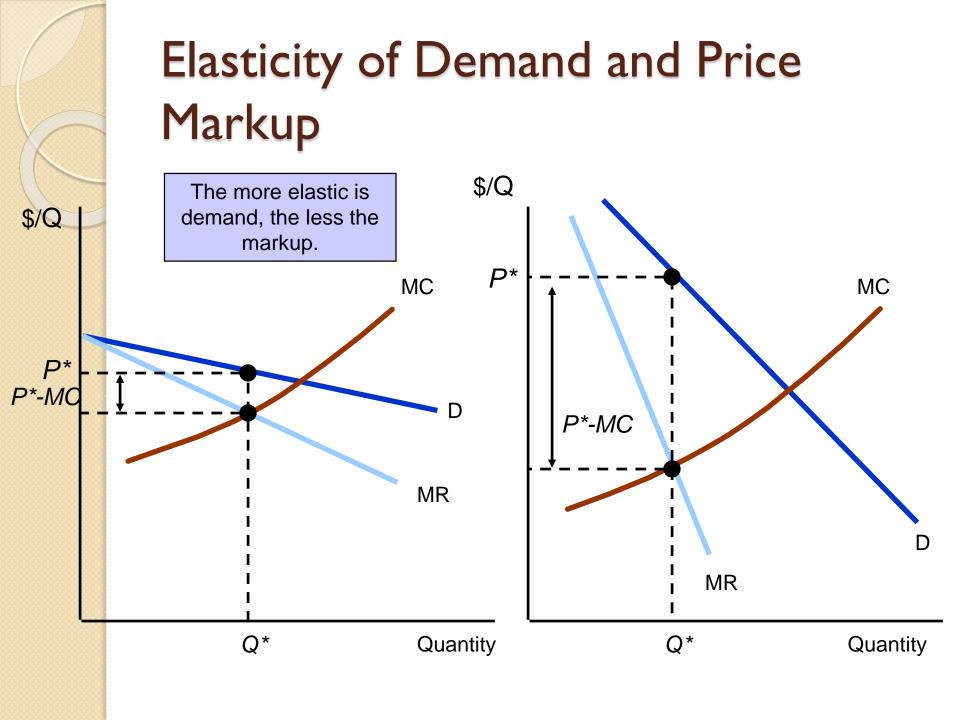
- Could measure monopoly power by the extent to which price is greater than MC for each firm
- Lerner's Index of Monopoly Power
 - \circ L = (P MC)/P
 - The larger the value of L (between 0 and I) the greater the monopoly power
 - \circ L is expressed in terms of E_d
 - L = $(P MC)/P = -I/E_d$
 - E_d is elasticity of demand for a firm, not the market

Monopoly Power

- Monopoly power, however, does not guarantee profits
- Profit depends on average cost relative to price
- One firm may have more monopoly power but lower profits due to high average costs

- Pricing for any firm with monopoly power:
 - If E_d is large, markup is small
 - If E_d is small, markup is large

$$P = \frac{MC}{1 + (1/E_d)}$$



Markup Pricing: Supermarkets & Convenience Stores

- Supermarkets
 - 1. Several firms
 - 2. Similar product
 - 3. $E_d = -10$ for individual stores

$$4.P = \frac{MC}{1 + (1/-10)} = \frac{MC}{0.9} = 1.11(MC)$$

5. Prices set about 10-11% above MC.

Markup Pricing: Supermarkets & Convenience Stores

- Convenience Stores
 - 1. Higher prices than supermarkets
 - 2. Convenience differentiates them

3.
$$E_d = -5$$

$$4.P = \frac{MC}{1 + (1/-5)} = \frac{MC}{0.8} = 1.25(MC)$$

5. Prices set about 25% above MC.

Markup Pricing: Supermarkets & Convenience Stores

- Convenience stores have more monopoly power
- Convenience stores do have higher profits than supermarkets, however
 - Volume is far smaller and average fixed costs are larger

Sources of Monopoly Power

- Why do some firms have considerable monopoly power, and others have little or none?
- Monopoly power is determined by ability to set price higher than marginal cost
- A firm's monopoly power, therefore, is determined by the firm's elasticity of demand

Sources of Monopoly Power

- The less elastic the demand curve, the more monopoly power a firm has
- The firm's elasticity of demand is determined by:
 - I) Elasticity of market demand
 - 2) Number of firms in market
 - 3) The interaction among firms

Elasticity of Market Demand

- With one firm, their demand curve is market demand curve
 - Degree of monopoly power is determined completely by elasticity of market demand
- With more firms, individual demand may differ from market demand
 - Demand for a firm's product is more elastic than the market elasticity

Number of Firms

- The monopoly power of a firm falls as the number of firms increases; all else equal
 - More important are the number of firms with significant market share
 - Market is highly concentrated if only a few firms account for most of the sales
- Firms would like to create barriers to entry to keep new firms out of market
 - Patent, copyrights, licenses, economies of scale

Interaction Among Firms

- If firms are aggressive in gaining market share by, for example, undercutting the other firms, prices may reach close to competitive levels
- If firms collude (violation of antitrust rules), could generate substantial monopoly power
- Markets are dynamic and therefore, so is the concept of monopoly power

The Social Costs of Monopoly Power

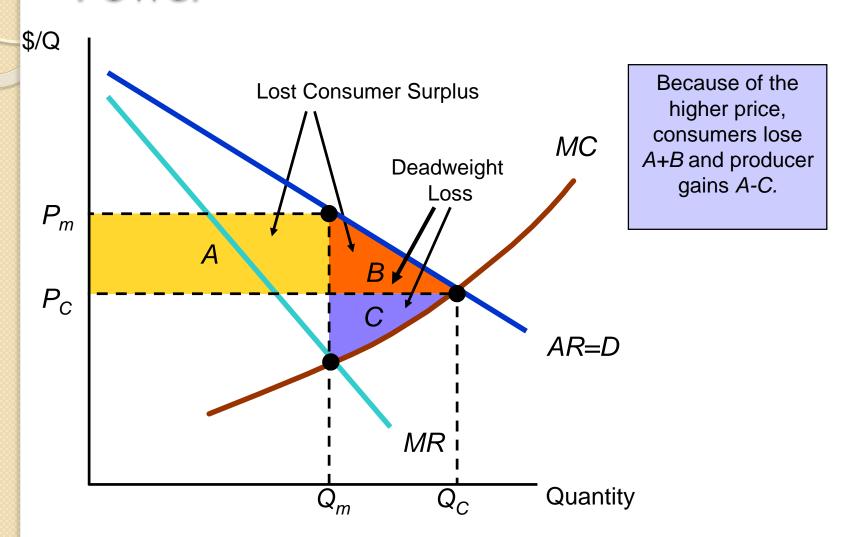
- Monopoly power results in higher prices and lower quantities
- However, does monopoly power make consumers and producers in the aggregate better or worse off?
- We can compare producer and consumer surplus when in a competitive market and in a monopolistic market

The Social Costs of Monopoly

- Perfectly competitive firm will produce where MC = $D \rightarrow P_C$ and Q_C
- Monopoly produces where MR = MC, getting their price from the demand curve \rightarrow P_M and Q_M
- There is a loss in consumer surplus when going from perfect competition to monopoly
- A deadweight loss is also created with monopoly

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Deadweight Loss from Monopoly Power



Chapter 10 105

The Social Costs of Monopoly

- Social cost of monopoly is likely to exceed the deadweight loss
- Rent Seeking
 - Firms may spend to gain monopoly power
 - Lobbying
 - Advertising
 - Building excess capacity

Chapter 10

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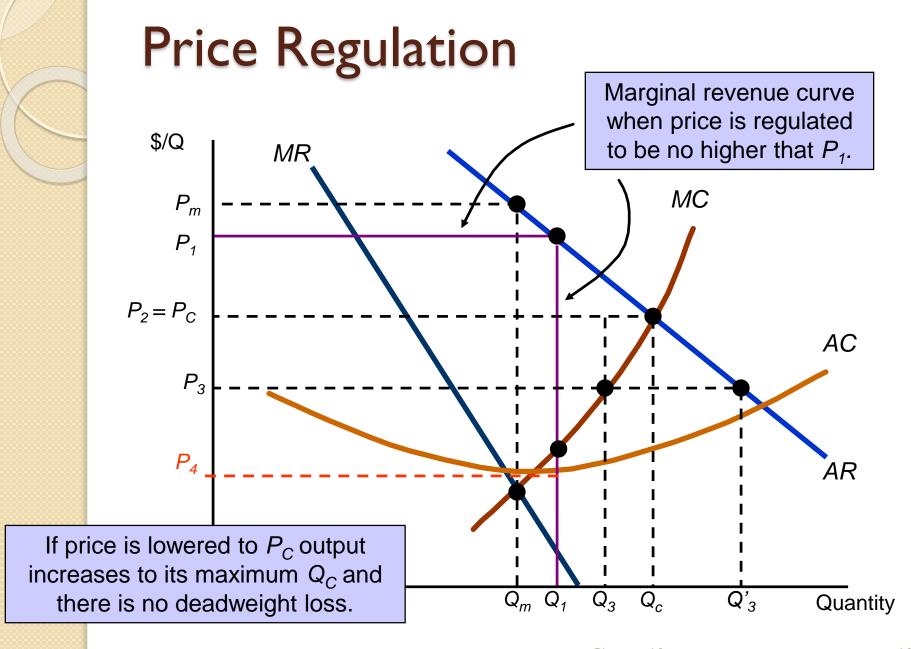
The Social Costs of Monopoly

- The incentive to engage in monopoly practices is determined by the profit to be gained
- The larger the transfer from consumers to the firm, the larger the social cost of monopoly

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Government Regulation

- Government can regulate monopoly power through price regulation
 - Recall that in competitive markets, price regulation creates a deadweight loss
 - Price regulation can eliminate deadweight loss with a monopoly
 - The effect of the regulation can be shown graphically

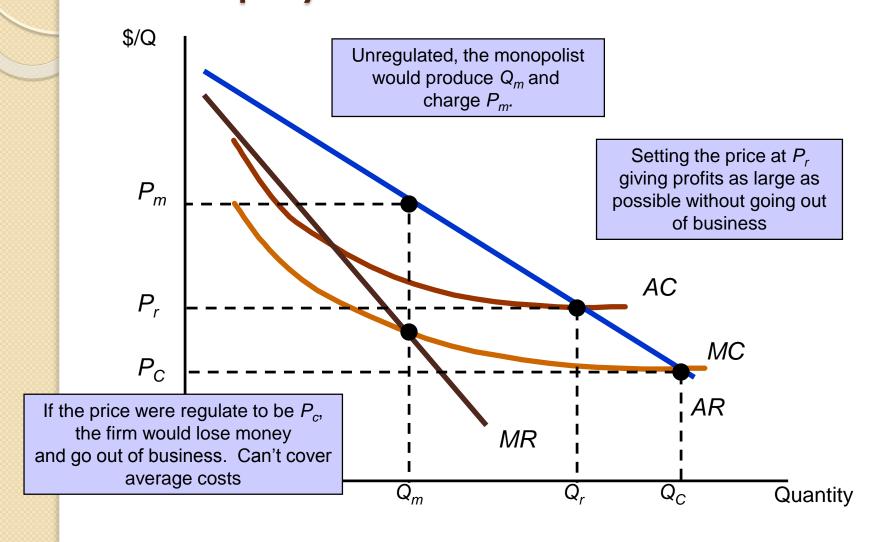


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Government Regulation

- Natural Monopoly
 - A firm that can produce the entire output of an industry at a cost lower than what it would be if there were several firms
 - Usually arises when there are large economies of scale
 - We can show that splitting the market into two firms results in higher AC for each firm than when only one firm was producing

Regulating the Price of a Natural Monopoly



Government Regulation

- Regulation in Practice
 - It is very difficult to estimate the firm's cost and demand functions because they change with evolving market conditions
 - An alternative pricing technique rate-ofreturn regulation allows the firms to set a maximum price based on the expected rate or return that the firm will earn

Regulation in Practice

- There are problems, however, with rate of return regulation
 - 1. Firm's capital stock is difficult to value
 - 2. "Fair" rate of return is based on actual cost of capital, that cost is based on regulatory behavior (and investor's perception of allowed rates in the future)

Regulation in Practice

- Rate of return regulation leads to lags in regulatory response to changes in cost and other market conditions
- Leads to long and expensive regulatory hearings
- The hearing process creates a regulatory lag that may benefit producers (1950s & '60s) or consumers (1970s & '80s)

Regulation in Practice

- Government may also set price caps based on firm's variable costs, past prices, and possibly inflation and productivity growth
- A firm is typically allowed to raise its price each year without approval from regulatory agency by amount equal to inflation minus expected productivity growth

Factor Markets with Monopoly

- We have examined factor demand when a firm faces a competitive output market and a competitive factor demand
- Now we consider factor demands when markets are facing one-sided monopoly
- Two cases to be discussed
 - Monopoly in the output market but competition in the factor market
 - Competition in the output market but monopoly in the factor market

A General Rule for Factor Demand

- When a firm determines a profitmaximizing demand for a factor, it will always want to choose a quantity such that the MR from hiring one more unit of that factor just equals the MC of doing so
- The above decision rule takes various forms depending on our assumptions about the environment in which the firm operates

Monopoly in the Output Market

- Suppose that a firm has a monopoly for its output and it has a production function y = f(x)
- R(y) = p(y)y or R(x) = R(y(x))
- dR/dx = [dR/dy] [dy/dx] = MR*MPx
- dR/dx represents the effect on revenue due to the marginal increase in the input, which is called marginal revenue product (MRP)

Marginal Revenue Product

- If a firm is facing a competitive market for the output, MRPx = P*MPx
- But if it is facing a monopolistic market, then

$$MRP_{x} = p(y) \left[1 - \frac{1}{|E_{d}|} \right] MP_{x}$$

$$MRP_{x} = p(y) \left[1 - \frac{1}{|E_{d}|} \right] MP_{x} \le pMP_{x}$$

Monopoly in the Output Market

- Suppose that the factor market is competitive
- If the firm is a competitive in the output market, then $P \bullet MP(x_c^*) = w$
- If the firm is a monopolistic in the output market, then $MRP(x_m^*) = w$
- The factor demand by a monopolist must be less than the factor demand by the same firm if it behaves competitively

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Monopsony

- A monopsony is a market in which there is a single buyer
- Monopsony power is the ability of the buyer to affect the price of the good and pay less than the price that would exist in a competitive market
- We suppose that the firm is a monopsony in the labor market but a price taker in the output market

Monopsonist Buyer

- Buyer will buy until value from last unit equals expenditure on that unit
- The market supply curve is not the marginal expenditure curve
 - Market supply shows how much the firm must pay per unit as a function of total units purchased
 - Supply curve is average expenditure curve
 - Upward sloping supply implies the marginal expenditure curve must lie above it
 - Decision to buy extra unit raises price paid for all units

Marginal vs. Average Expenditure

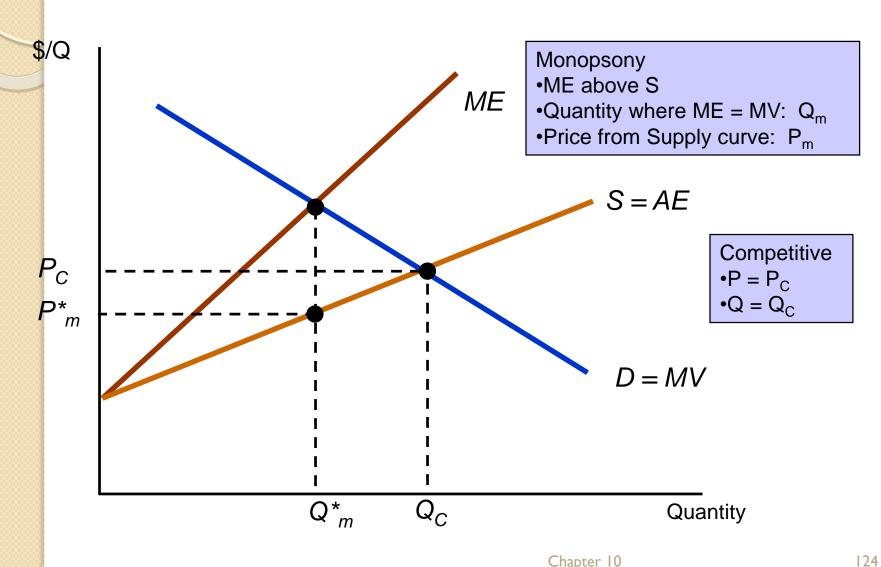
• We assume that the supply curve w(x) is upward sloping, i.e., w'(x) > 0

$$Max \ pf(x) - w(x)x$$

$$\underbrace{pf'(x)}_{marg inal} = w + w'(x)x = \underbrace{w \left[1 + \frac{1}{E_s}\right]}_{marg inal expenditure(cost)}$$

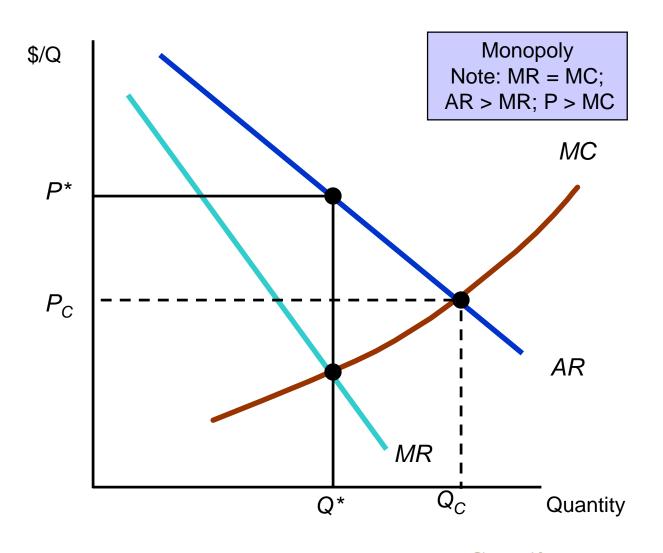
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Monopsonist Buyer

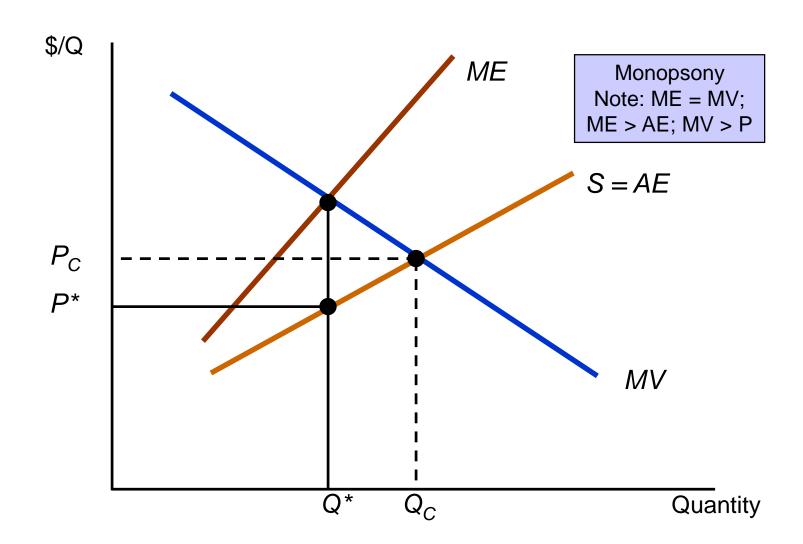


- Monopsony is easier to understand if we compare to monopoly
- We can see this graphically
- Monopolist
 - Can charge price above MC because faces downward sloping demand (average revenue)
 - \circ MR < AR
 - MR = MC gives quantity less than competitive market and price that is higher

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- Monopoly
 - MR < P
 - P > MC
 - $\circ Q_m < Q_C$
 - $P_{m} > P_{C}$

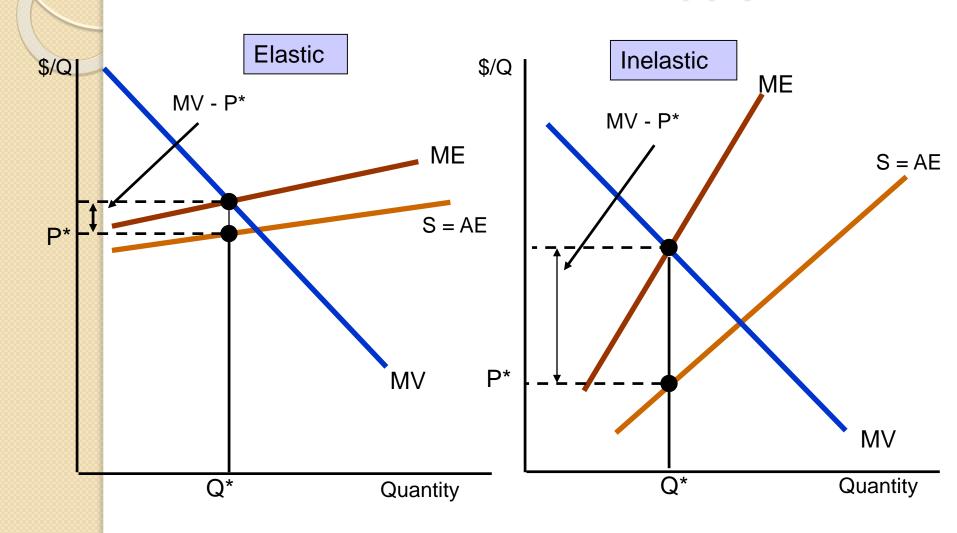
- Monopsony
 - ME > P
 - P < MV
 - $Q_m < Q_C$
 - $P_{m} < P_{C}$

- More common than pure monopsony are a few firms competing among themselves as buyers so that each firm has some monopsony power
 - Automobile industry
- Monopsony power gives them the ability to pay a price that is less than marginal value

- The degree of monopsony power depends on three factors:
 - 1. Number of buyers
 - The fewer the number of buyers, the less elastic the supply and the greater the monopsony power
 - 2. Interaction Among Buyers
 - The less the buyers compete, the greater the monopsony power

- The degree of monopsony power depends on three factors (cont'd):
 - 3. Elasticity of market supply
 - Extent to which price is marked down below
 MV depends on elasticity of supply facing buyer
 - If supply is very elastic, markdown will be small
 - The more inelastic the supply, the more monopsony power

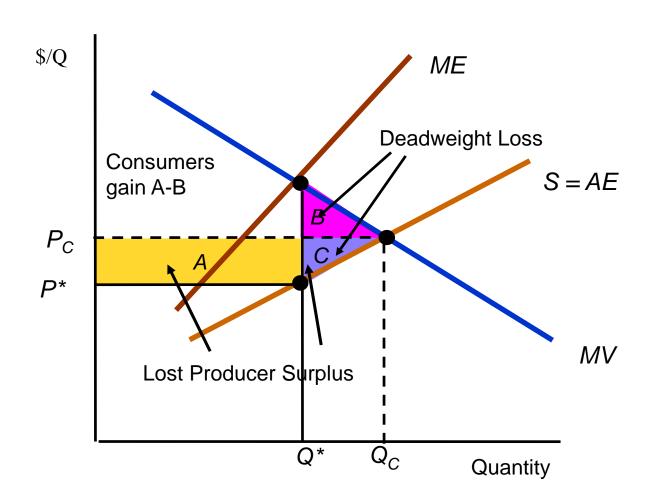
Monopsony Power: Elastic Versus Inelastic Supply



Social Costs of Monopsony Power

- Since monopsony power gives lower prices and lower quantities purchased, we would expect sellers to be worse off and buyers better off
- We can show the effects of monopsony power using producer and consumer surplus compared to competitive market
 - For sole monopsonist, quantity is where ME = MV and price is from demand
 - For competitive market, quantity and price where
 S = D

Deadweight Loss from Monopsony Power



- Bilateral Monopoly
 - Market where there is only one buyer and one seller
 - Bilateral monopoly is rare, however, markets with a small number of sellers with monopoly power selling to a market with few buyers with monopsony power is more common
 - Even with bargaining, in general, monopsony and monopoly power will counteract each other

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- Market power harms some players in the market – buyer or seller
- Market power reduces output, leading to deadweight loss
- Excessive market power could raise problems of equity and fairness

Limiting Market Power: The Antitrust Laws

- What can we do to limit market power and keep it from being used anticompetitively?
 - Tax away monopoly profits and redistribute to consumers
 - Difficult to measure and find all those who lost
 - Direct price regulation of natural monopolies
 - Keep firms from acquiring excessive market power
 - Antitrust laws

The Antitrust Laws

- Rules and regulations designed to promote a competitive economy by:
 - Prohibiting actions that restrain or are likely to restrain competition
 - Restricting the forms of allowable market structures
- Monopoly power arises in a number of ways, each of which is covered by the antitrust laws

Limiting Market Power: The Antitrust Laws

- Sherman Act (1890) Section 1
 - Prohibits contracts, combinations, or conspiracies in restraint of trade
 - Explicit agreement to restrict output or fix prices
 - Implicit collusion through parallel conduct
 - Form of implicit collusion in which one firm consistently follows actions of another
 - Example
 - In 1999, four of the world's largest drug and chemical companies were found guilty of fixing prices of vitamins sold in US

Limiting Market Power: The Antitrust Laws

- Sherman Act (1890) Section 2
 - Makes it illegal to monopolize or attempt to monopolize a market and prohibits conspiracies that result in monopolization
- Clayton Act (1914)
 - I. Makes it unlawful to require a buyer or lessor not to buy from a competitor

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Limiting Market Power: The Antitrust Laws

- Clayton Act (1914)
 - 2. Prohibits predatory pricing
 - The practice of pricing to drive current competitors out of business and to discourage new entrants in a market so that a firm can enjoy higher future profits
 - 3. Prohibits mergers and acquisitions if they "substantially lessen competition" or "tend to create a monopoly"



- Robinson-Patman Act (1936)
 - Amendment to the Clayton Act
 - Prohibits price discrimination if it causes buyers to suffer economic damages and competition is reduced

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Limiting Market Power: The Antitrust Laws

- Federal Trade Commission Act (1914, amended 1938, 1973, 1975)
 - Created the Federal Trade Commission (FTC)
 - 2. Supplements the Sherman and Clayton Acts by fostering competition through a set of prohibitions against unfair and anticompetitive practices
 - Prohibitions against deceptive advertising, labeling, agreements with retailer to exclude competing brands

Enforcement of Antitrust Laws

Antitrust laws are enforced three ways:

- Antitrust Division of the Department of Justice
 - A part of the executive branch the administration can influence enforcement
 - Fines levied on businesses; fines and imprisonment levied on individuals

Enforcement of Antitrust Laws

2. Federal Trade Commission

 Enforces through voluntary understanding or formal commission order

3. Private Proceedings

- Can sue for treble damages (threefold damages)
- Individuals or companies can also ask for injunctions to force wrongdoers to cease anticompetitive actions

Enforcement of Antitrust Laws

- US antitrust laws are stricter and more far reaching than the rest of the world
 - Some have claimed this has hindered US competing in international markets
- With growth of European Union, methods of antitrust enforcement have evolved
 - Similar to US laws with some procedural and substantive differences
 - Europe only imposes civil penalties

Limiting Market Power: The Antitrust Laws

- Two Examples
 - American Airlines
 - Early 80's president and CEO accused of attempting to price fix
 - Microsoft
 - Monopoly power
 - Predatory actions
 - Collusion