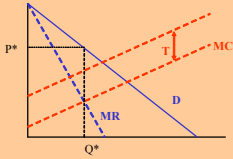
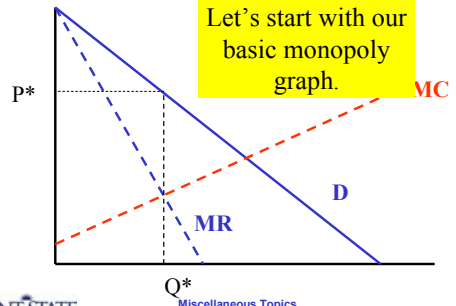


Miscellaneous Topics



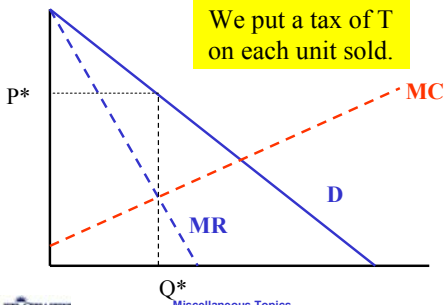
Taxing A Monopoly-1

Let's start with our basic monopoly graph.

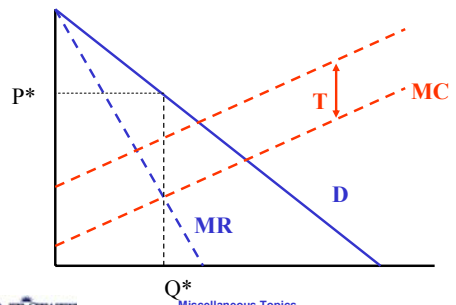


Taxing A Monopoly-1

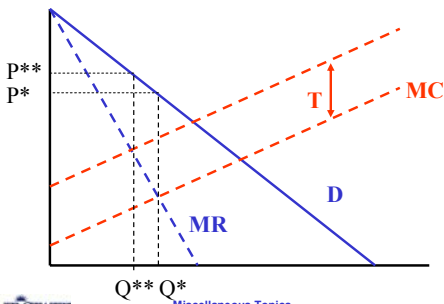
We put a tax of T on each unit sold.



Taxing A Monopoly-1

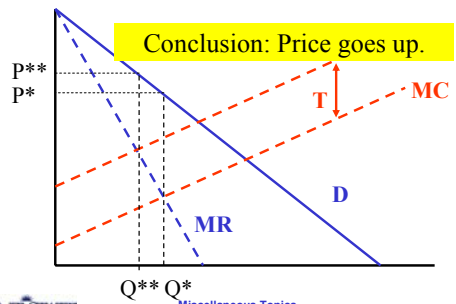


Taxing A Monopoly-1



Taxing A Monopoly-1

Conclusion: Price goes up.



Taxing a Monopoly -2

- A tax is imposed on the firm's monopoly profits. That is, we collect a tax bill

$$\lambda(R-C)$$

- The firm's problem is now to maximize

$$\pi = (1-\lambda)(R-C)$$

Taxing a Monopoly -2

- Think of its problem as maximizing

$$\pi = R - C$$

- Where

$$R = (1-\lambda)R$$

- And

$$C = (1-\lambda)C$$

Taxing a Monopoly -2

- Obviously

$$MR = MC$$

- But that means

$$MR = (1-\lambda)MR = (1-\lambda)MC = MC$$

Taxing a Monopoly -2

$$\cancel{(1-\lambda)MR} = \cancel{(1-\lambda)MC}$$

$$MR = MC$$

Taxing a Monopoly -2

$$\cancel{(1-\lambda)MR} = \cancel{(1-\lambda)MC}$$

$$MR = MC$$

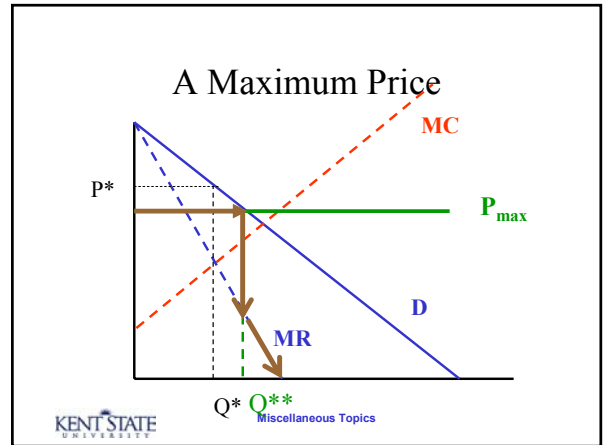
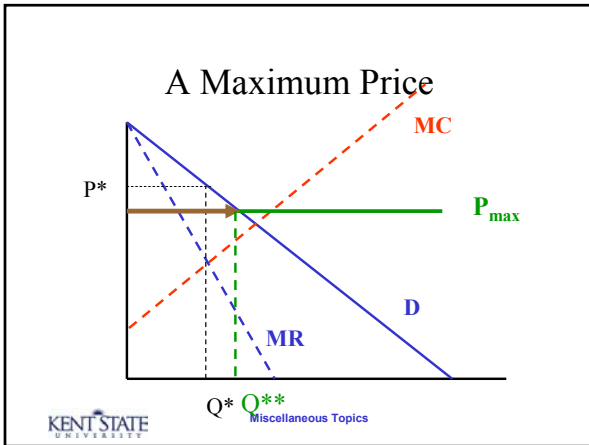
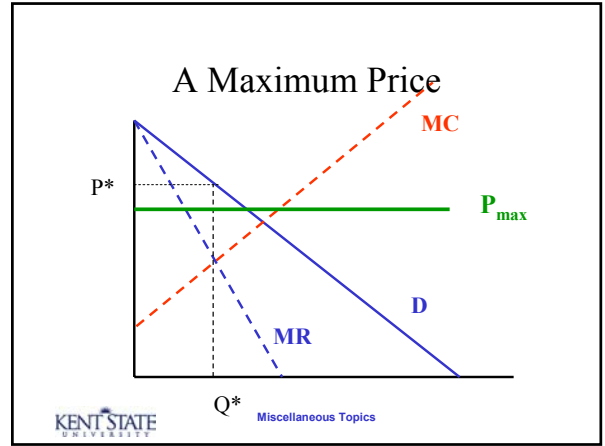
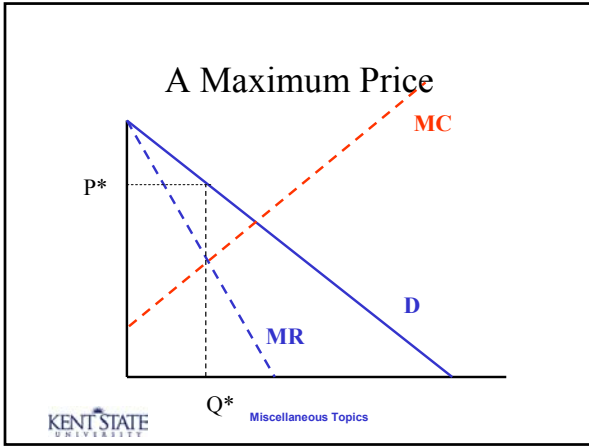
No change in price and quantity produced. Simply a reduction in monopolist's profits.

Taxing a Monopoly -2

$$\cancel{(1-\lambda)MR} = \cancel{(1-\lambda)MC}$$

$$MR = MC$$

Be careful to place tax on economic profits, not accounting profits



Regulating a Monopoly

- KSU is prepared to give Coke or Pepsi a monopoly on cola sales on the campus.
- How should it set up the bidding process?

KENT STATE UNIVERSITY Miscellaneous Topics

Regulating a Monopoly

- KSU is prepared to give Coke or Pepsi a monopoly on cola sales on the campus.
- How should it set up the bidding process?
- Assumption

Coke \equiv Pepsi

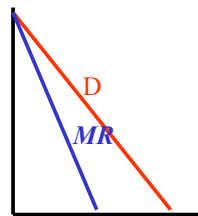
KENT STATE UNIVERSITY Miscellaneous Topics

Plan A

- Coke and Pepsi bid for contract. Highest bidder wins.

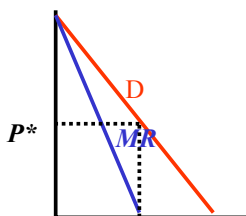
Plan A

- Coke and Pepsi bid for contract. Highest bidder wins.



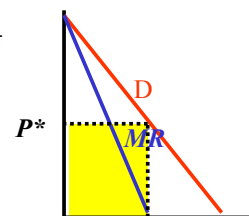
Plan A

- Coke and Pepsi bid for contract. Highest bidder wins.
- Assume $MC = 0$.



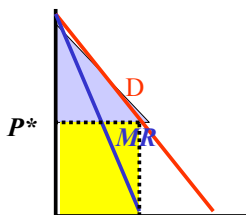
The Winning Bid

- Coke and Pepsi bid for contract. Highest bidder wins.
- Assume $MC = 0$.



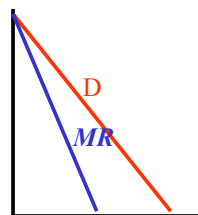
Consumer Surplus

- Coke and Pepsi bid for contract. Highest bidder wins.
- Assume $MC = 0$.



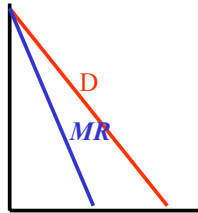
Plan B

- Coke and Pepsi bid for contract in terms of price to be charged. Low bidder wins.



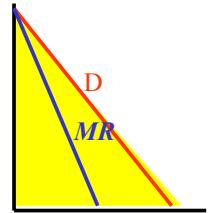
Plan B

- Coke and Pepsi bid for contract in terms of price to be charged. Low bidder wins.
- Price will drop to zero.



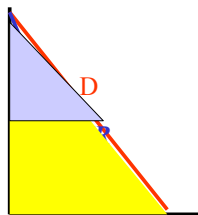
Plan B

- Coke and Pepsi bid for contract in terms of price to be charged. Low bidder wins.
- Price will drop to zero.
- Now look at the Consumer Surplus



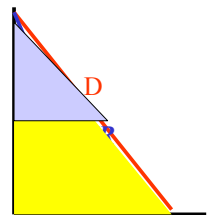
Plan B

- Coke and Pepsi bid for contract in terms of price to be charged. Low bidder wins.
- Price will drop to zero.
- Now look at the Consumer Surplus
- Compare!



A Problem

- Coke and Pepsi bid for contract in terms of price to be charged. Low bidder wins.
- If Coke or Pepsi is giving soda away, what are their incentives to deliver?
- Now look at the Consumer Surplus
- AND COMPARE



End