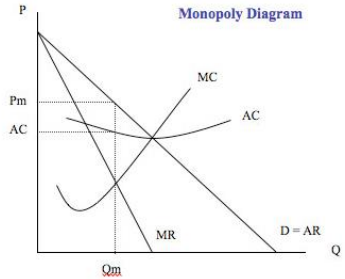
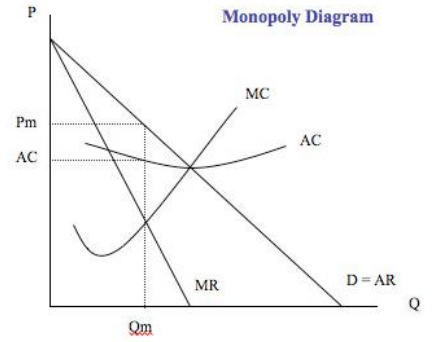


Ch. 14 Learning Targets



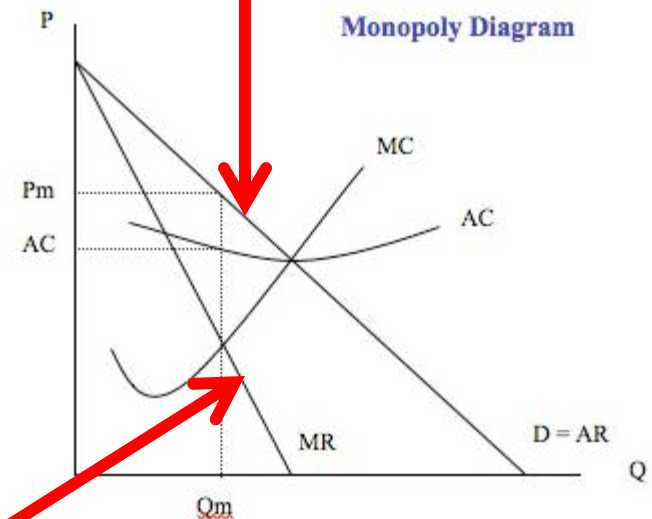
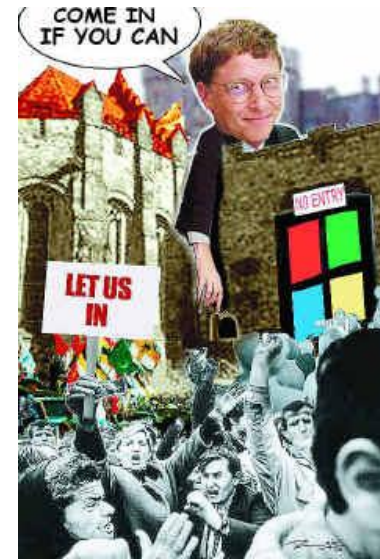
- How a monopolist determines its profit-maximizing output and price
- How to determine whether a monopoly is carrying a profit or a loss
- The difference between monopoly and perfect competition, and its effects of that difference on society's welfare.
- How policy makers address the problems posed by monopoly.
- What price discrimination is, and why it is so prevalent when producers have market power.

Monopoly

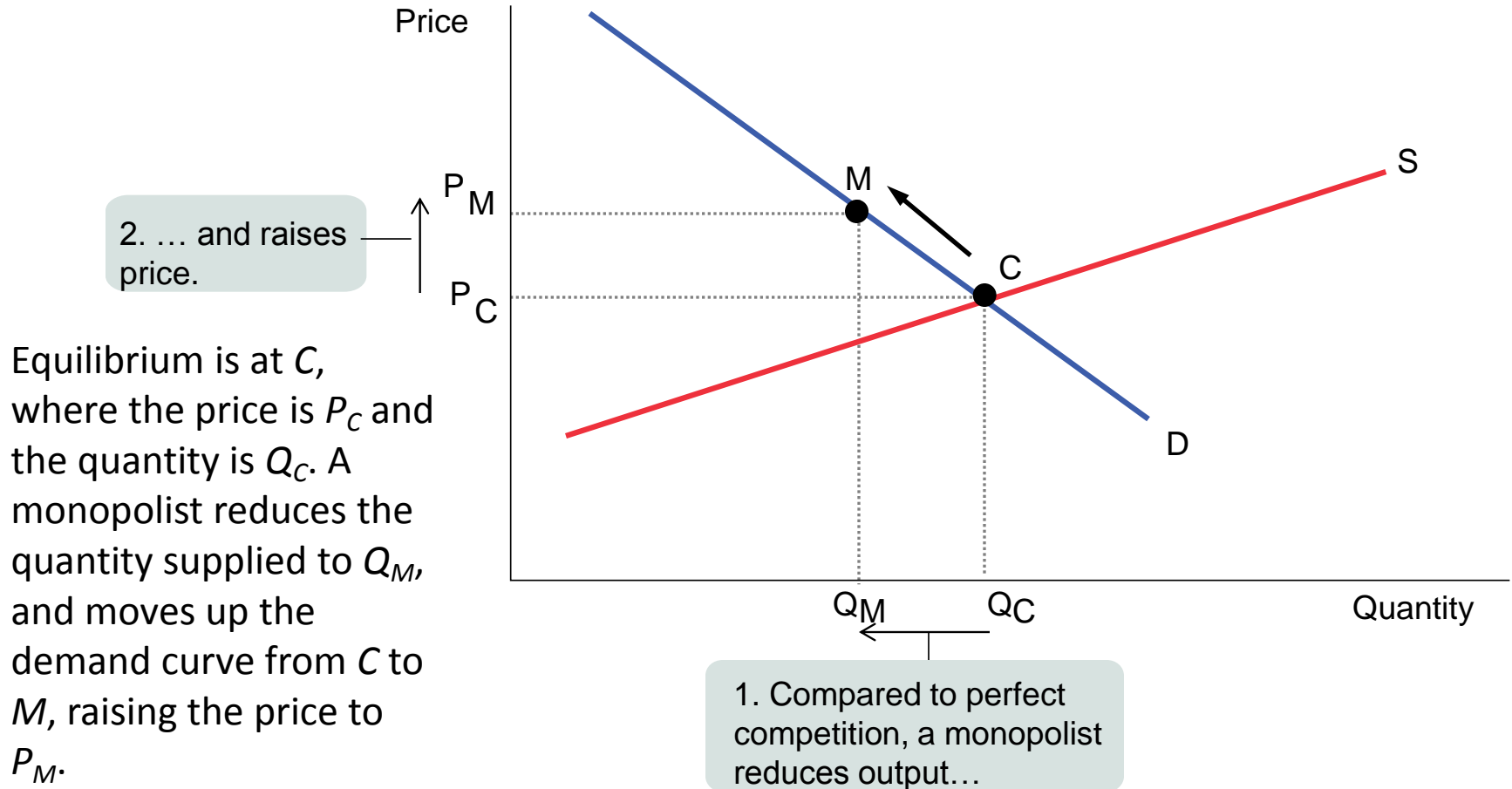


Monopoly's Revenue

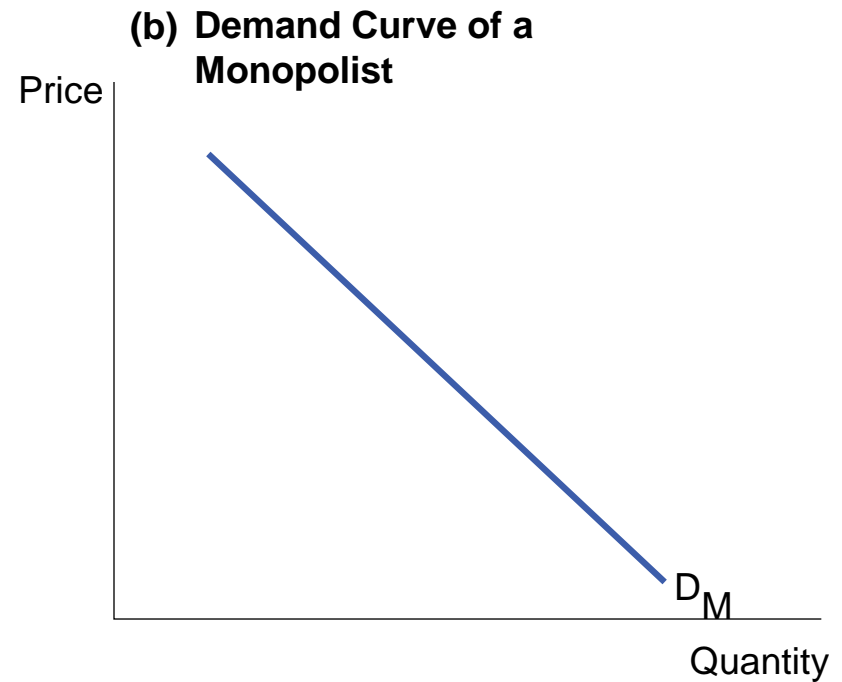
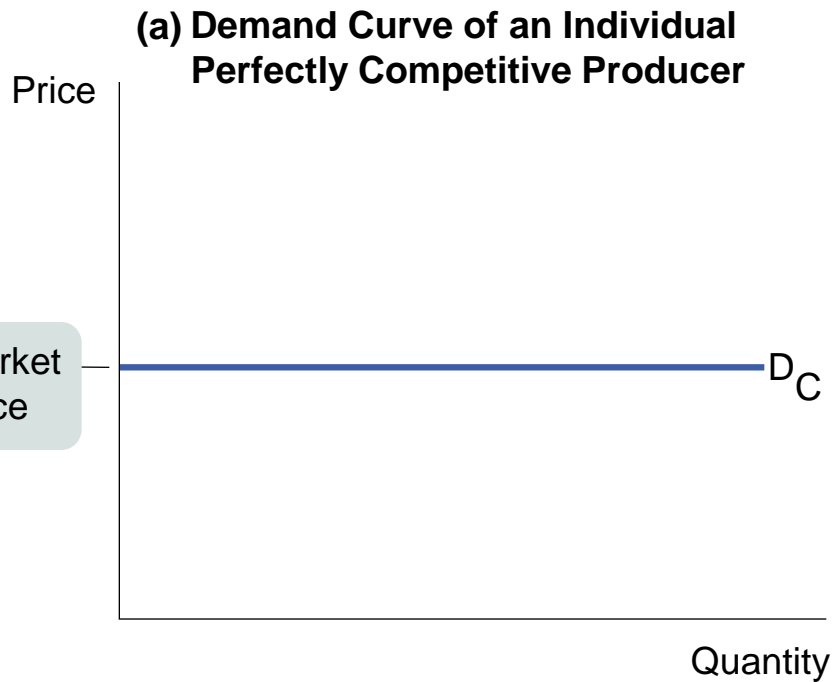
- The *MR curve* lies below its demand curve.
- A monopolist's *MR* is always less (double the slope) than the (DARP), because of the downward sloping demand curve.
 - If monopolist reduces price, they do so on all outputs (assuming they cannot use price discrimination).



What a Monopolist Does



Comparing the Demand Curves of a Perfectly Competitive Producer and a Monopolist

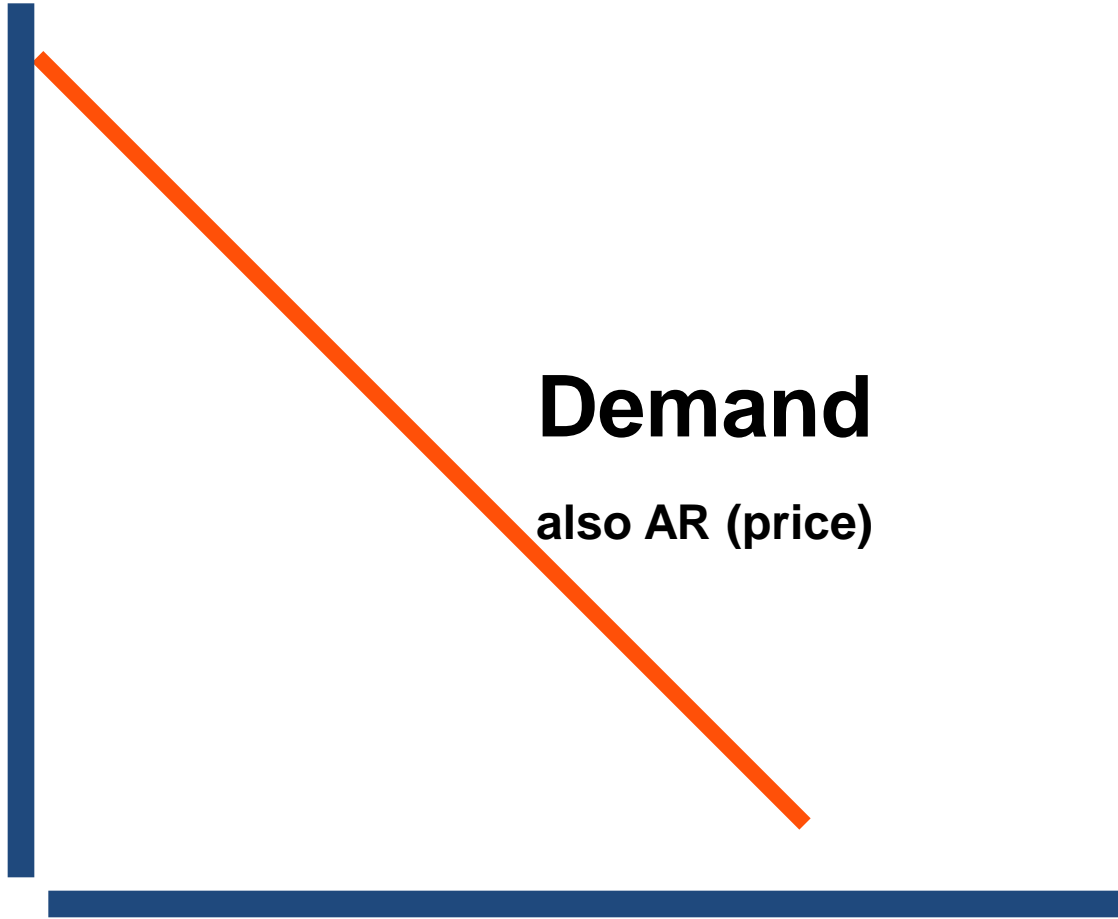


An individual perfectly competitive firm cannot affect the market price of the good → it faces a horizontal demand curve DC

A monopolist, on the other hand, can affect the price (sole supplier in the industry) → its demand curve is the market demand curve, DM To sell more output it must lower the price; by reducing output it raises the price.

Monopoly's Demand Curve

Price

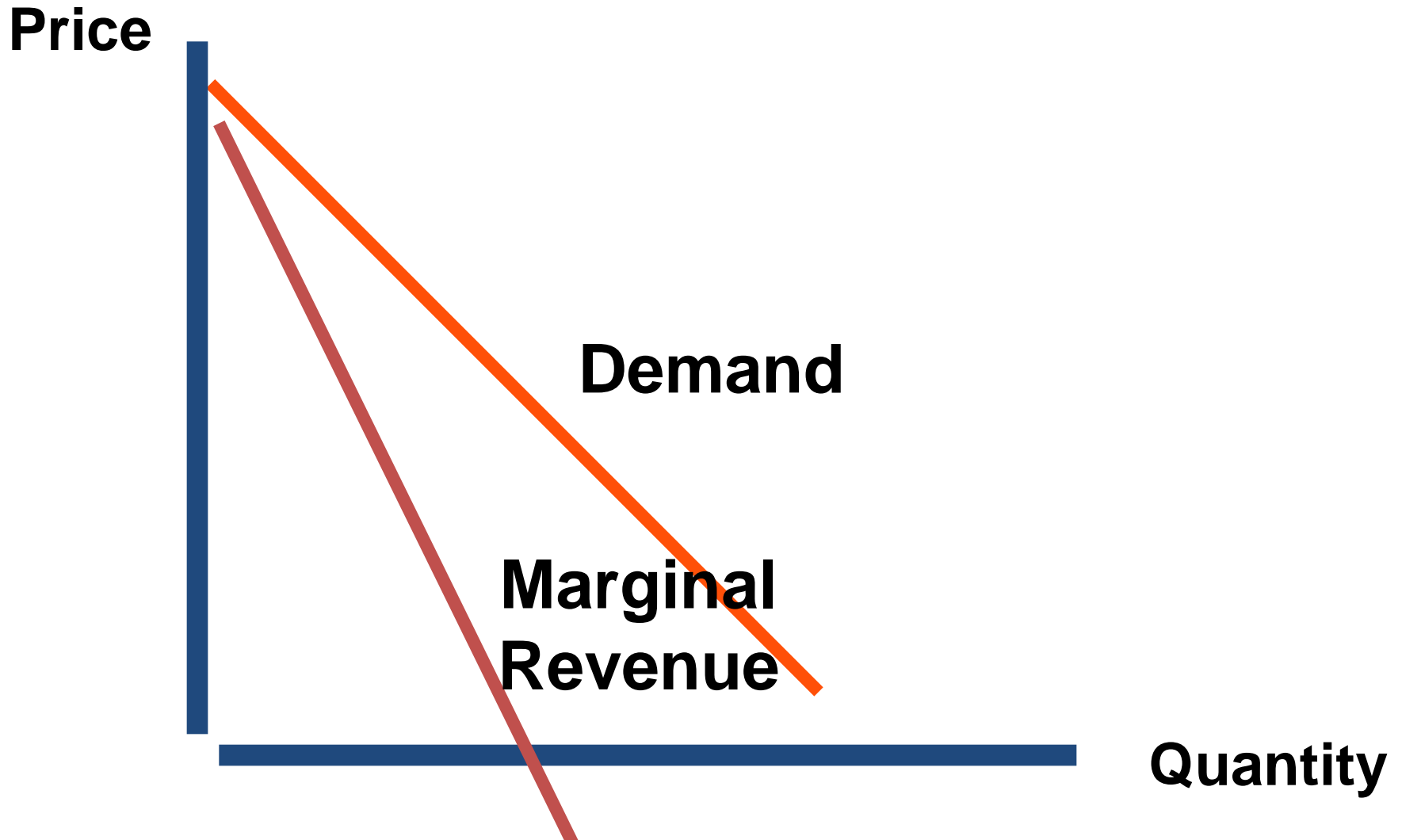


Demand

also AR (price)

Quantity

Monopoly's Marginal Revenue and Demand Curves



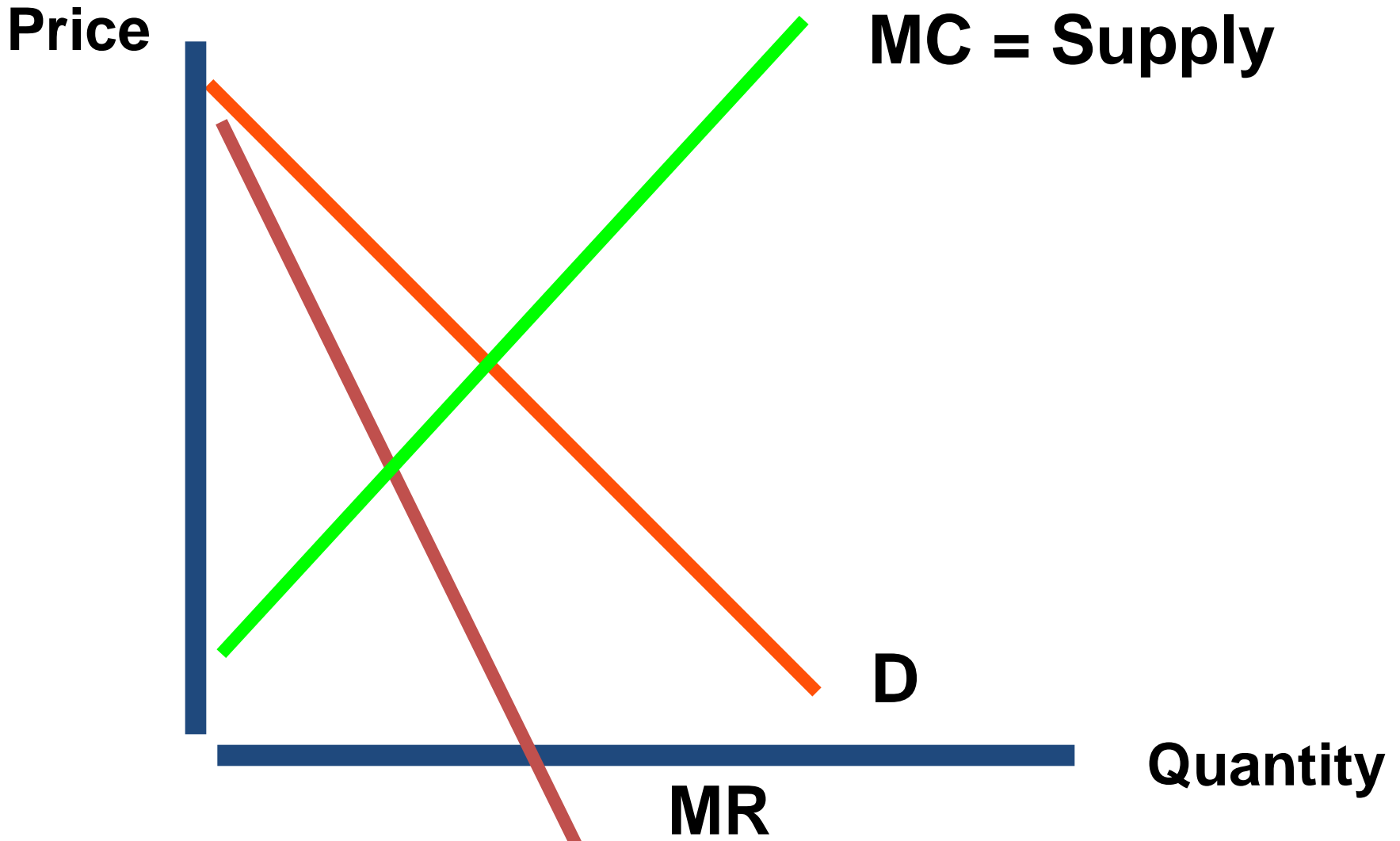
Profit Maximization of a Monopoly

- profit-maximizing Q of output is

$$\mathbf{MR=MC}$$



Monopoly's Profit Maximization



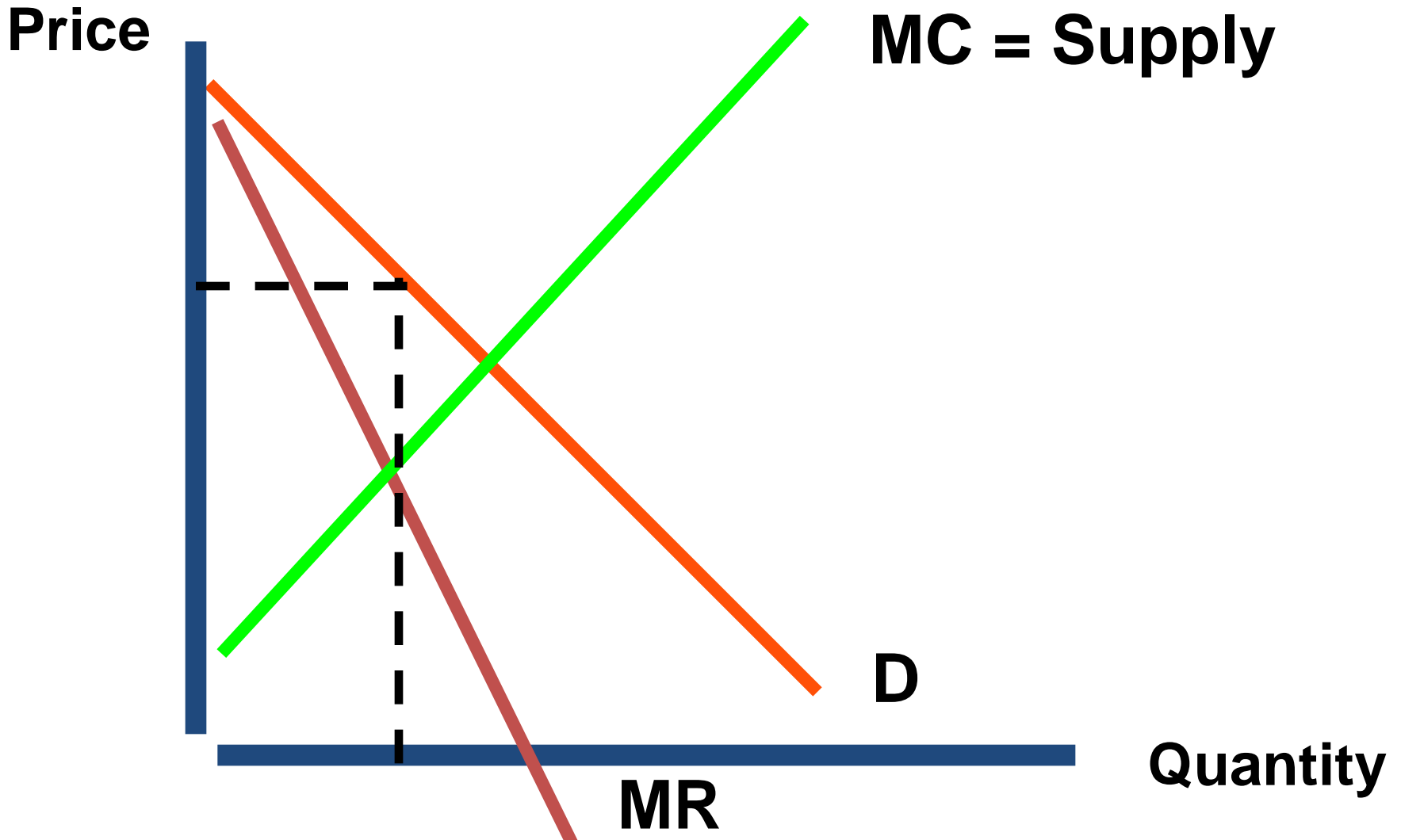
Profit Maximization of a Monopoly

- In *Monopolized* markets price *exceeds* marginal cost.

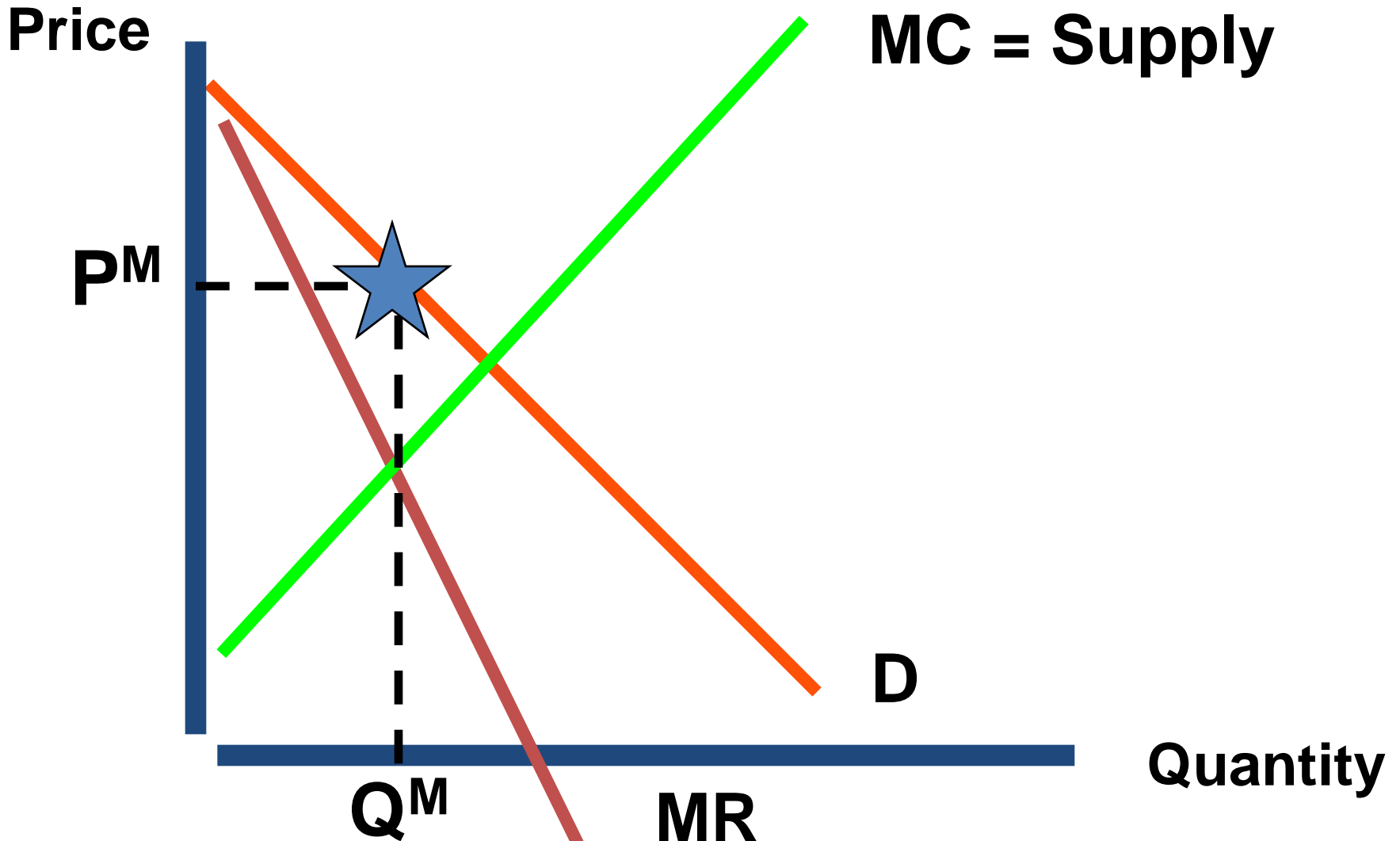
The Jewelry Shop



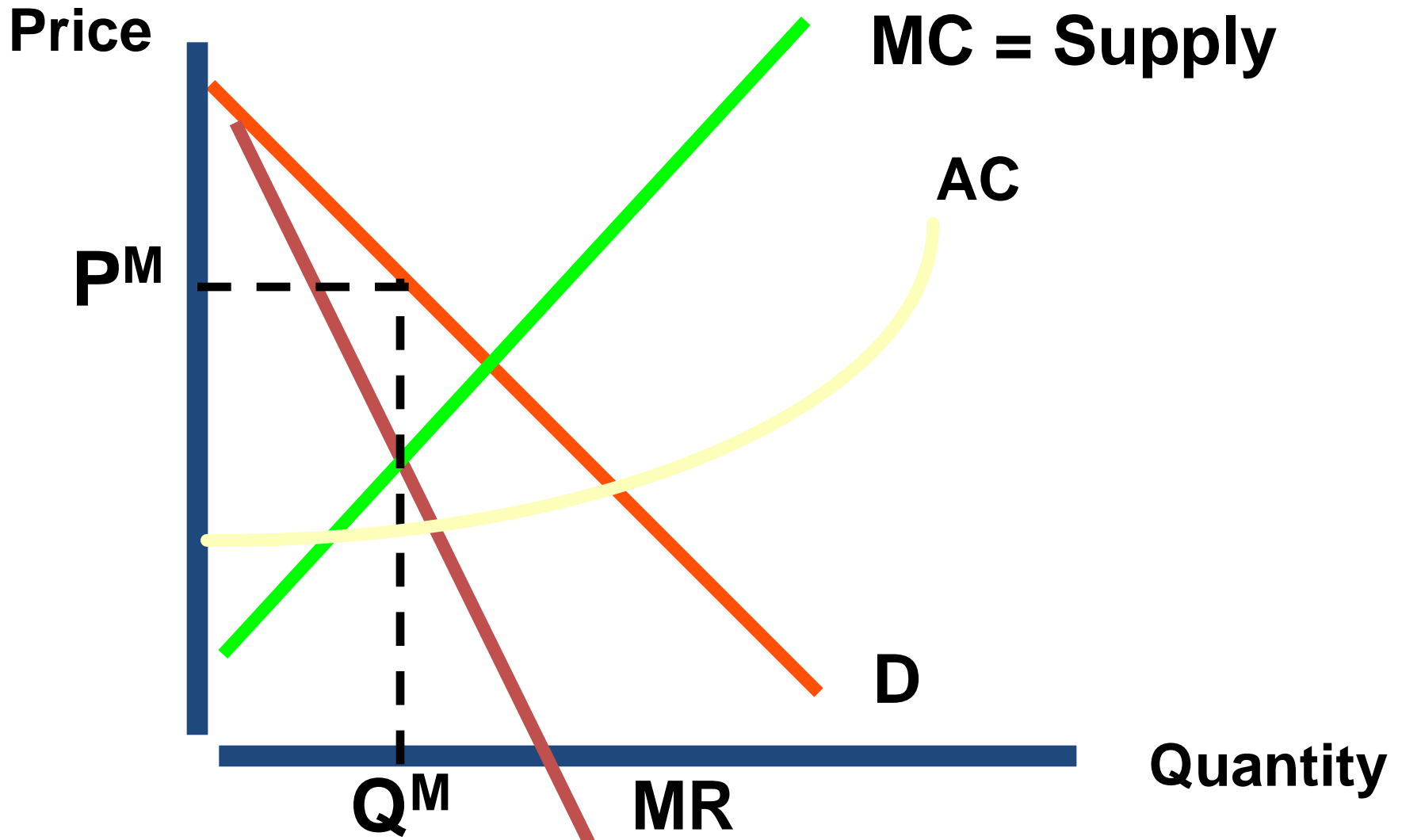
Monopoly's Profit Maximization Price



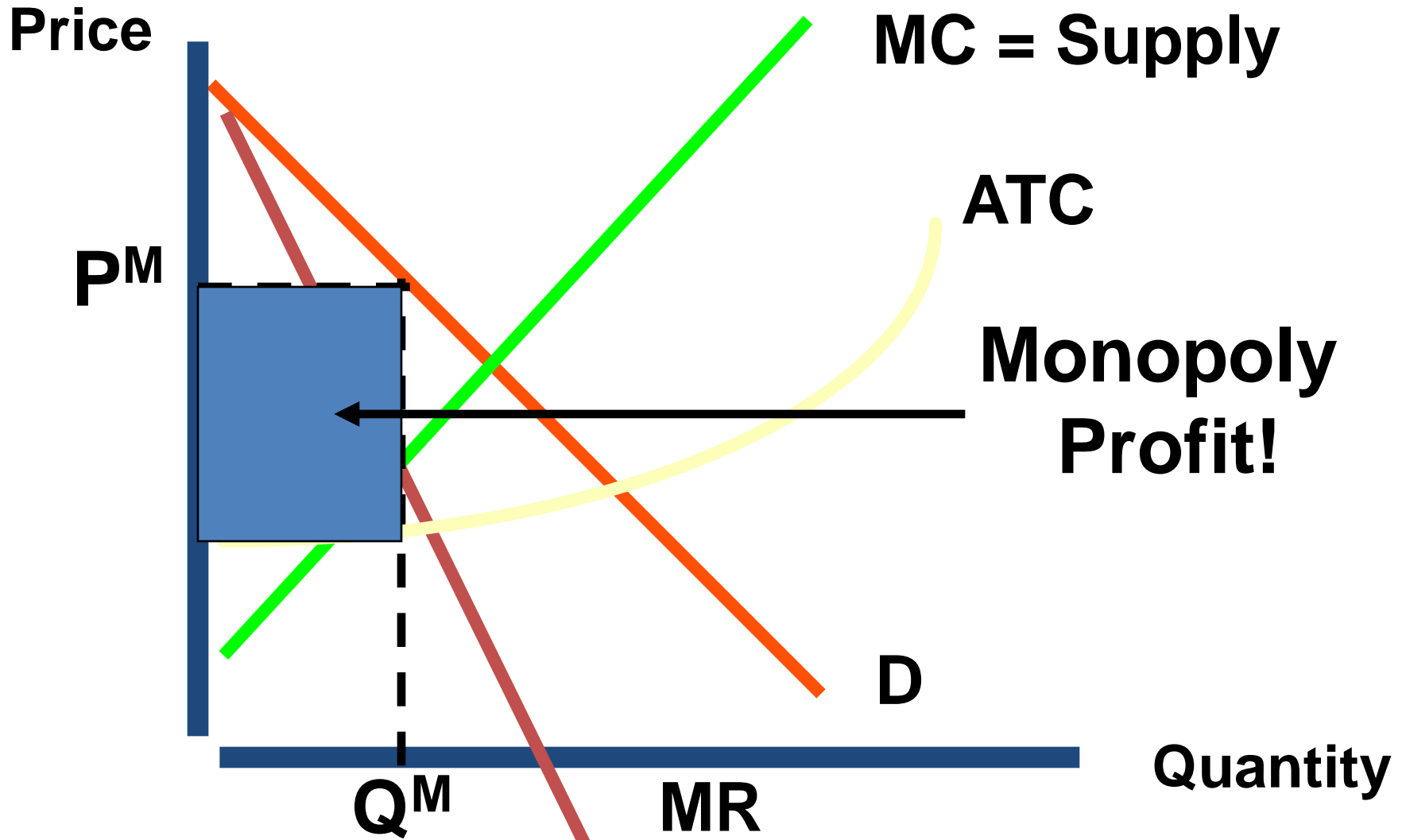
Monopoly's Profit Maximization Price



Monopoly's Profit Maximization



Monopoly's Profit Maximization



The Welfare Cost of Monopoly

- The monopolist produces less than the socially efficient ($Q_S=Q_D$) quantity of output.



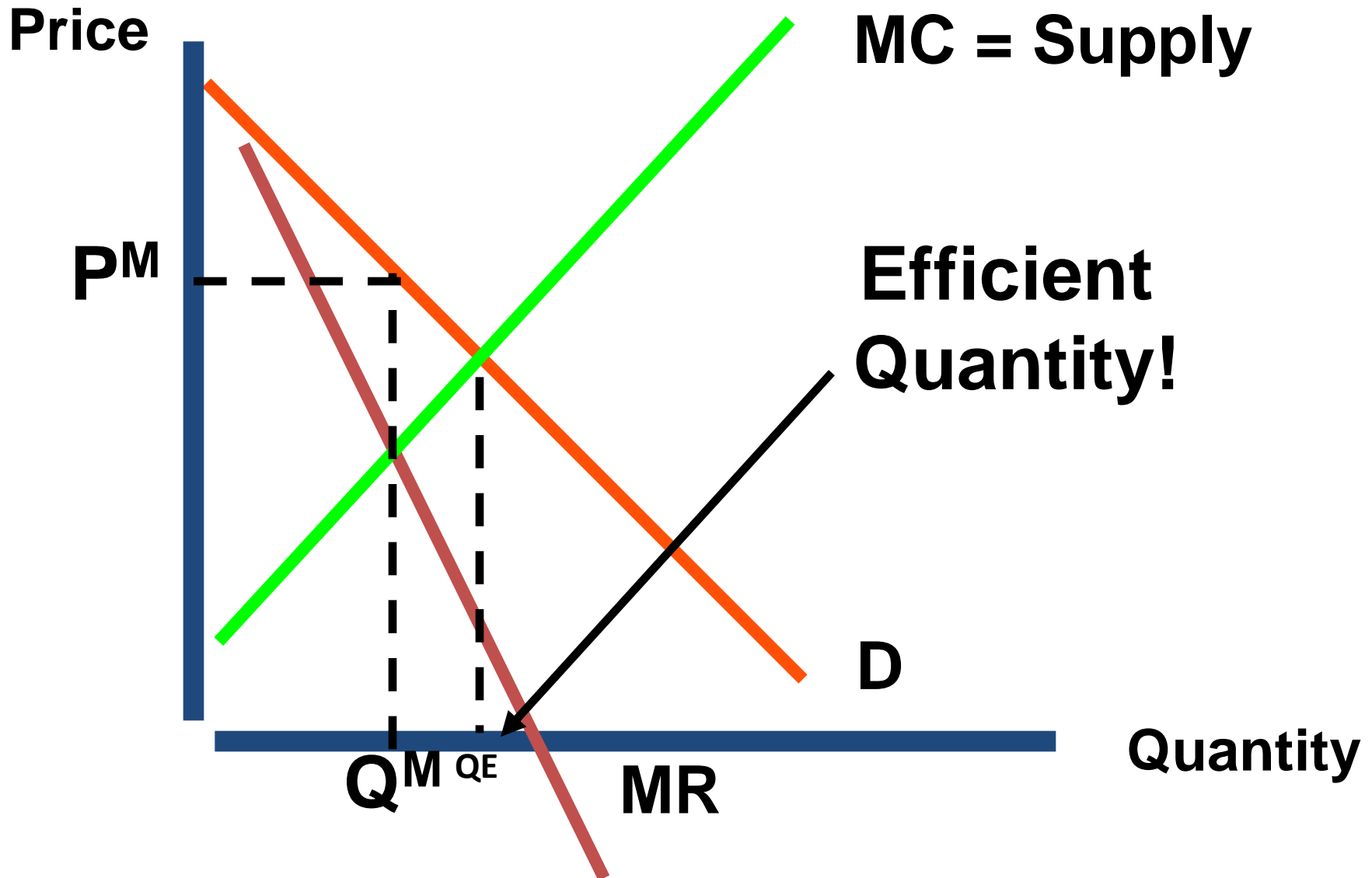
comcast.

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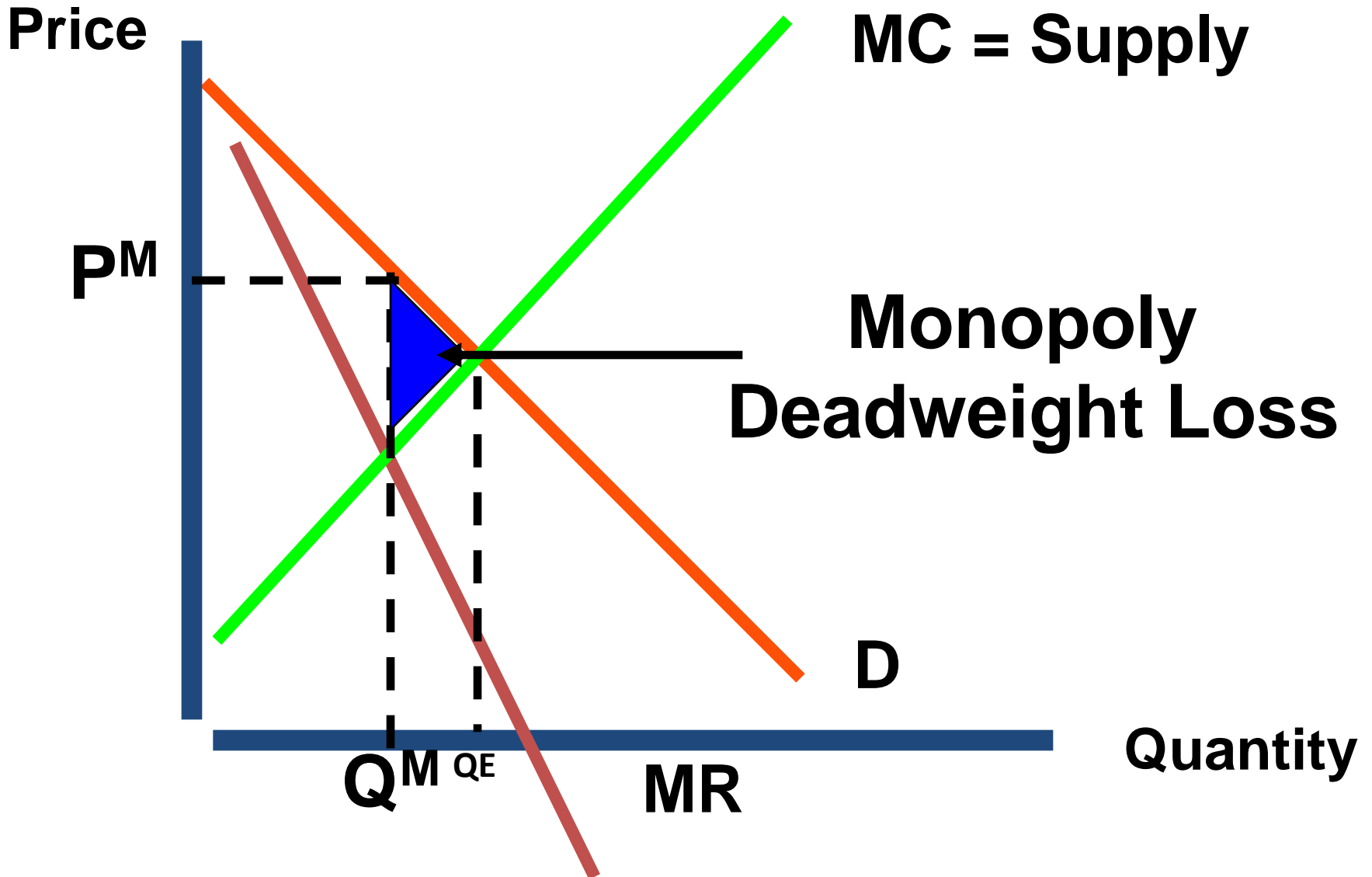
Deadweight Loss

- Because a monopoly sets price above MC it places a wedge.
- The wedge causes the quantity sold to fall short of the social optimum.

Monopoly's Profit Maximization



Monopoly's Profit Maximization



iPad Unreg Monopoly

iPad Regulated Monopoly

Price Discrimination

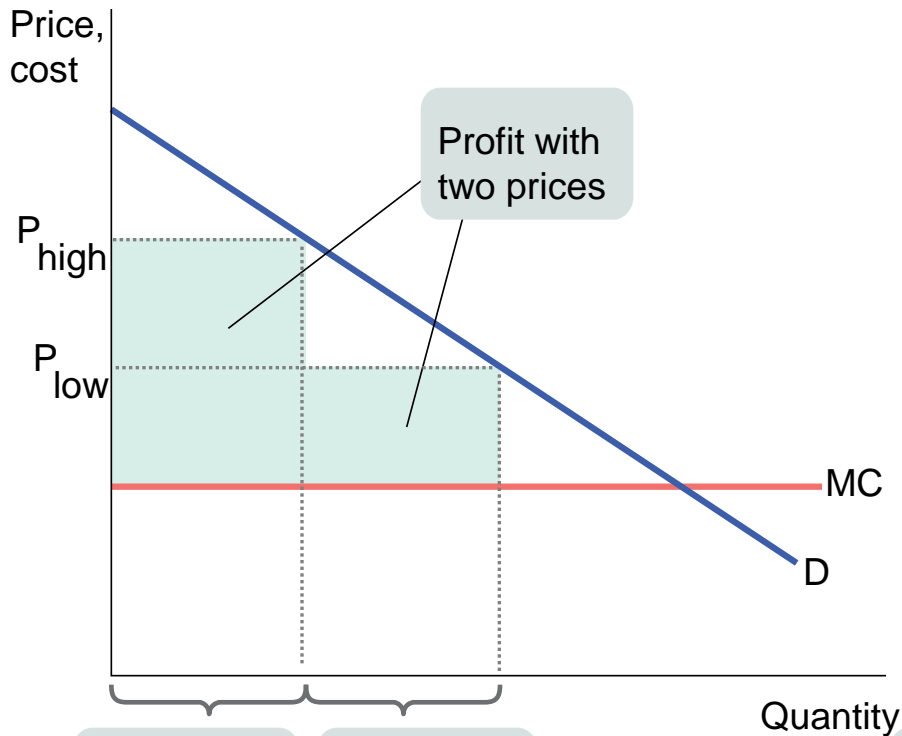
- Up to this point we have considered only the case of a **single-price monopolist**, one who charges all consumers the same price. As the term suggests, not all monopolists do this.
- In fact, many if not most monopolists find that they can increase their profits by charging different customers different prices for the same good: they engage in **price discrimination**.
 - *Example: Airline Tickets:* If you are willing to buy a nonrefundable ticket a month in advance and stay over a Saturday night, the round trip may cost only \$150, but if you have to go on a business trip tomorrow, and come back the next day, the round trip might cost \$550.

Price Discrimination and Elasticity

- A monopolist able to charge each consumer his or her willingness to pay for the good achieves *perfect price discrimination* and does not cause inefficiency because all mutually beneficial transactions are exploited.
- In this case, the consumers do not get any consumer surplus! The entire surplus is captured by the monopolist in the form of profit.
- The following graphs depict different types of price discrimination...

Price Discrimination

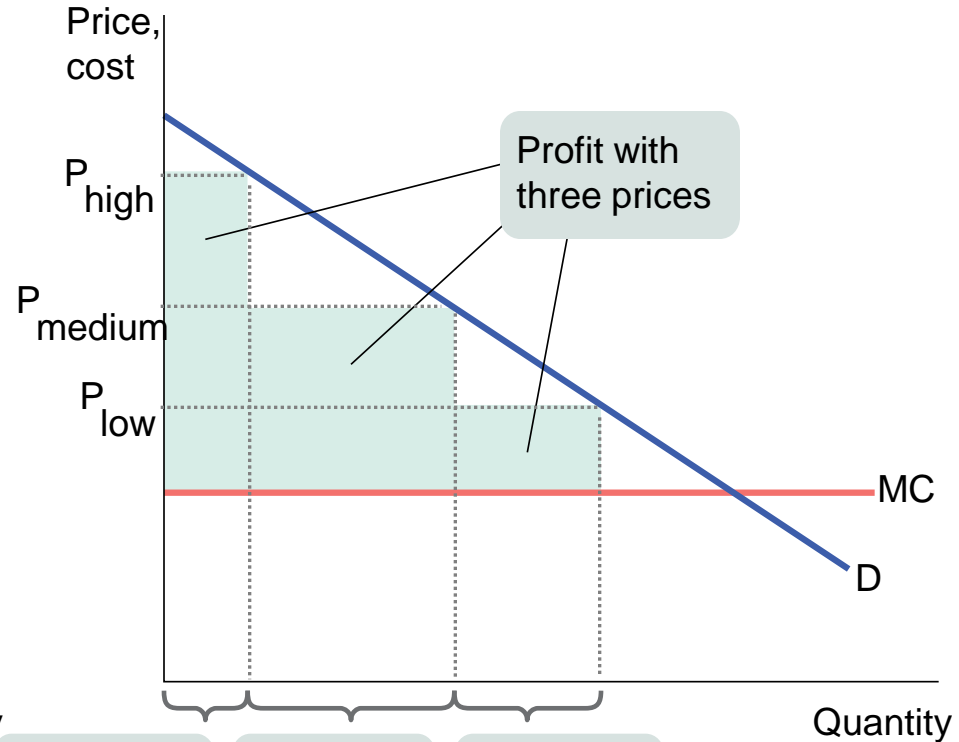
(a) Price Discrimination with Two Different Prices



Sales to consumers with a high willingness to pay

Sales to consumers with a low willingness to pay

(b) Price Discrimination with Three Different Prices



Sales to consumers with a high willingness to pay

Sales to consumers with a medium willingness to pay

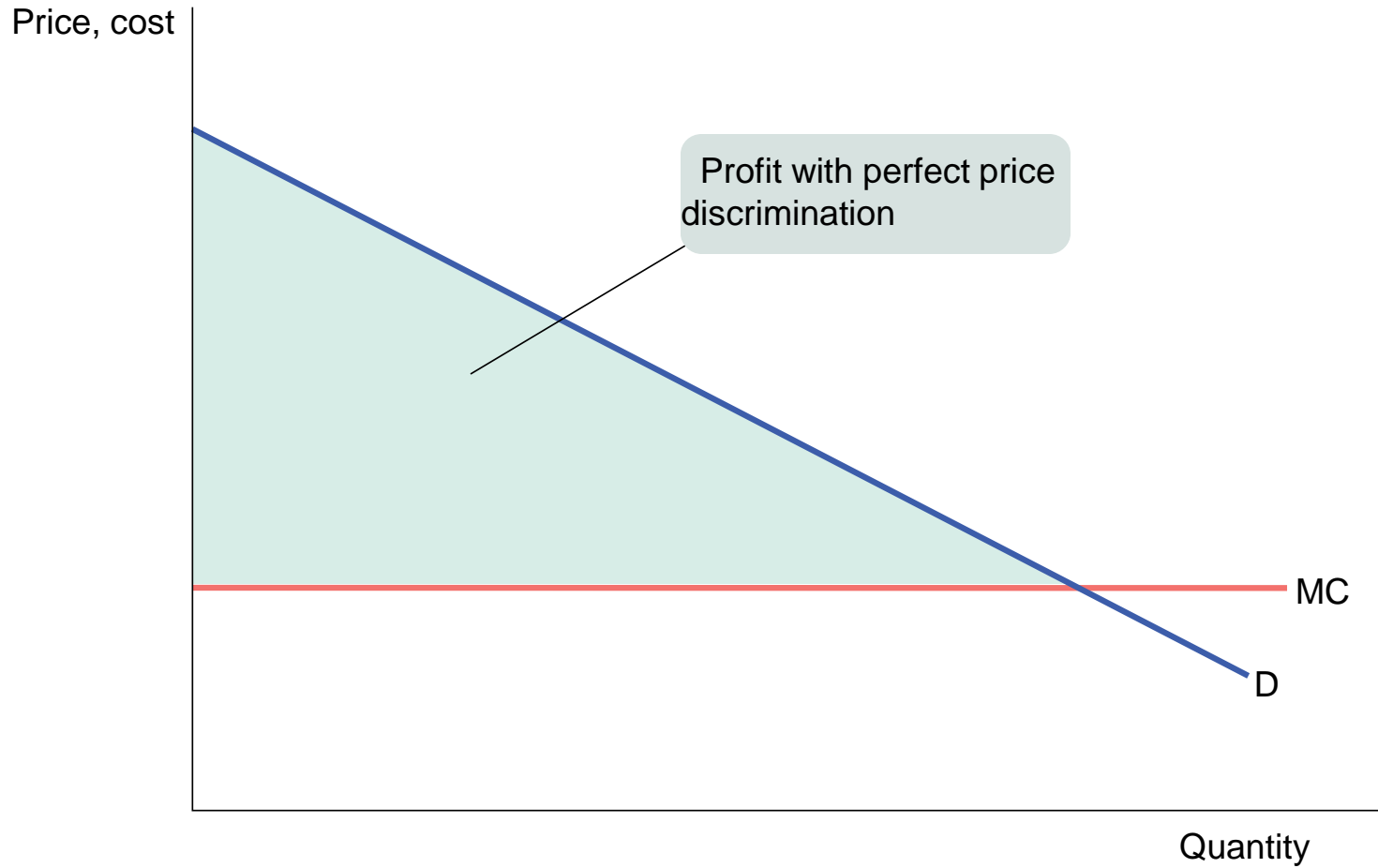
Sales to consumers with a low willingness to pay

Perfect Price Discrimination

- **Perfect price discrimination** takes place when a monopolist charges each consumer his or her willingness to pay—the maximum that the consumer is willing to pay.

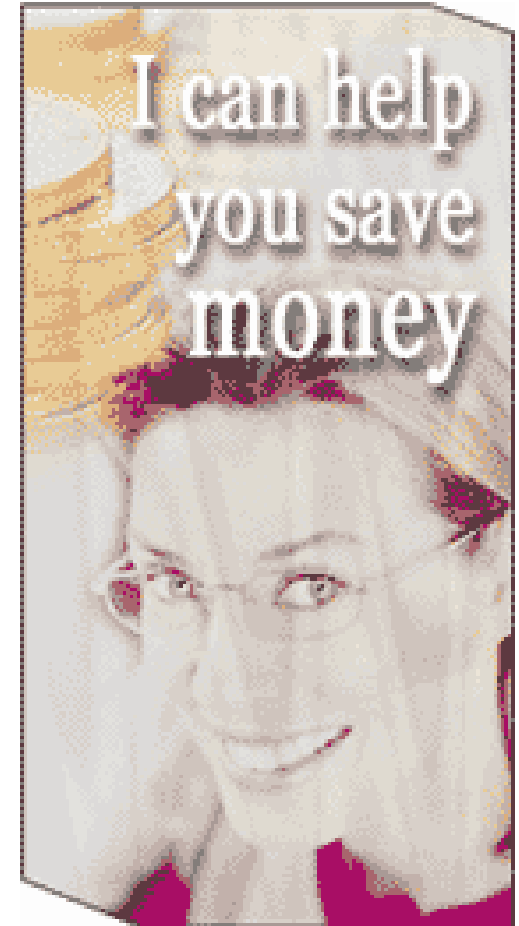
Price Discrimination

(c) Perfect Price Discrimination



Examples: Price Discrimination

- Airline Tickets: first class, coach, stay-over, one-way vs. round-trip
- Discount Coupons
- Utility rates: residential, business
- Two-Part Tariff, i.e., amusement park entrance fee, and then a fee for each ride



Study Guide

- Ch. 14 Problems & Exercises: 1-5, 8, 9, 11-14a, 16
- Ch. 14 Review Q's: 1, 5-10, 12-16, 22, 25-28, 30-31

On a piece of paper graph the following:

- In a perfectly competitive market: a short run loss to long run equilibrium (side by side)
- An unregulated monopoly
- On the previous graph show the Q for a regulated monopoly using:
 - Allocative efficiency
 - Fair Market Return or Average Cost Pricing
- In a perfectly competitive market: a loss minimizing firm (side by side)