

CHAPTER 11

## Pricing with Market Power

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Chapter 11: Pricing with Market Power

### CHAPTER 11 OUTLINE

- 11.1 Capturing Consumer Surplus
- 11.2 Price Discrimination
- 11.3 Intertemporal Price Discrimination and Peak-Load Pricing
- 11.4 The Two-Part Tariff
- 11.5 Bundling
- 11.6 Advertising

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### 11.1 CAPTURING CONSUMER SURPLUS

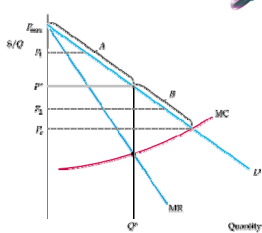


**Figure 11.1**  
**Capturing Consumer Surplus**

If a firm can charge only one price for all its customers, that price will be  $P^*$  and the quantity produced will be  $Q^*$ . Ideally, the firm would like to charge a higher price to consumers willing to pay more than  $P^*$ , thereby capturing some of the consumer surplus under region A of the demand curve.

The firm would also like to sell to consumers willing to pay prices lower than  $P^*$ , but only if doing so does not entail lowering the price to other consumers.

In that way, the firm could also capture some of the surplus under region B of the demand curve.



- **price discrimination** Practice of charging different prices to different consumers for similar goods.

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## 11.5 BUNDLING



### Tying

- **tying** Practice of requiring a customer to purchase one good in order to purchase another.

Why might firms use this kind of pricing practice?

One of the main benefits of tying is that it often allows a firm to *meter demand* and thereby practice price discrimination more effectively.

Tying can also be used to extend a firm's market power.

Tying can have other uses. An important one is to protect customer goodwill connected with a brand name.

This is why franchises are often required to purchase inputs from the franchiser.

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## \*11.6 ADVERTISING



Figure 11.20

### Effects of Advertising

AR and MR are average and marginal revenue when the firm doesn't advertise, and AC and MC are average and marginal cost.

The firm produces  $Q_0$  and receives a price  $P_0$ .

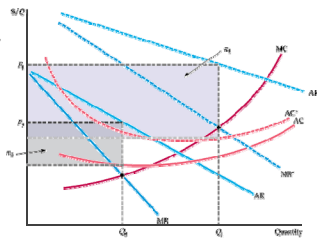
Its total profit  $\pi_0$  is given by the gray-shaded rectangle.

If the firm advertises, its average and marginal revenue curves shift to the right.

Average cost rises (to  $AC'$ ) but marginal cost remains the same.

The firm now produces  $Q_1$  (where  $MR' = MC$ ), and receives a price  $P_1$ .

Its total profit,  $\pi_1$ , is now larger.



$$\pi = PQ(P, A) - C(Q) - A$$

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## \*11.6 ADVERTISING



The price  $P$  and advertising expenditure  $A$  to maximize profit, is given by:

$$\pi = PQ(P, A) - CQ - A$$

*Advertising leads to increased output.*

But increased output in turn means increased production costs, and this must be taken into account when comparing the costs and benefits of an extra dollar of advertising.

The firm should advertise up to the point that

$$\begin{aligned} MR_{Ads} &= P \frac{\Delta Q}{\Delta A} = 1 + MC \frac{\Delta Q}{\Delta A} & (11.3) \\ &= \text{full marginal cost of} \\ &\text{advertising} \end{aligned}$$

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