



CHAPTER 4

Individual and Market Demand

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Chapter 4 Individual and Market Demand

CHAPTER 4 OUTLINE

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4.1 INDIVIDUAL DEMAND

Price Changes

Figure 4.1
Effect of Price Changes

A reduction in the price of food, with income and the price of clothing fixed, causes this consumer to choose a different market basket.

In (a), the baskets that maximize utility for various prices of food (point A, \$2; B, \$1; D, \$0.50) trace out the price-consumption curve.

Part (b) gives the demand curve, which relates the price of food to the quantity demanded. (Points E, G, and H correspond to points A, B, and D, respectively).

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4.1 INDIVIDUAL DEMAND

Substitutes and Complements



Recall that:

Two goods are *substitutes* if an increase in the price of one leads to an increase in the quantity demanded of the other.

Two goods are *complements* if an increase in the price of one good leads to a decrease in the quantity demanded of the other.

Two goods are *independent* if a change in the price of one good has no effect on the quantity demanded of the other.

4.2 INCOME AND SUBSTITUTION EFFECTS



A fall in the price of a good has two effects:

1. Consumers will tend to buy more of the good that has become cheaper and less of those goods that are now relatively more expensive.
2. Because one of the goods is now cheaper, consumers enjoy an increase in real purchasing power.

4.2 INCOME AND SUBSTITUTION EFFECTS



Figure 4.6

Income and Substitution Effects: Normal Good

A decrease in the price of food has both an income effect and a substitution effect.

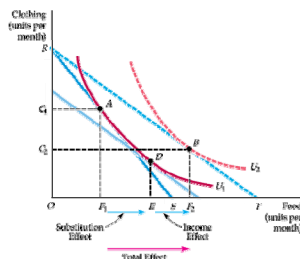
The consumer is initially at A , on budget line RS .

When the price of food falls, consumption increases by F_1F_2 as the consumer moves to B .

The substitution effect F_1E (associated with a move from A to D) changes the relative prices of food and clothing but keeps real income (satisfaction) constant.

The income effect EF_2 (associated with a move from D to B) keeps relative prices constant but increases purchasing power.

Food is a normal good because the income effect EF_2 is positive.



***4.6** EMPIRICAL ESTIMATION OF DEMAND



Interview and Experimental Approaches
to Demand Determination

Another way to obtain information about demand is through *interviews* in which consumers are asked how much of a product they might be willing to buy at a given price.

Although indirect approaches to demand estimation can be fruitful, the difficulties of the interview approach have forced economists and marketing specialists to look to alternative methods.

In *direct marketing experiments*, actual sales offers are posed to potential customers. An airline, for example, might offer a reduced price on certain flights for six months, partly to learn how the price change affects demand for flights and partly to learn how competitors will respond.

Even if profits and sales rise, the firm cannot be entirely sure that these increases resulted from the experimental change; other factors probably changed at the same time.
