Demand Theory

Types of Demand

- Demand for consumers' goods and producers' goods
- Demand for perishable and durable goods
- Autonomous (direct) and derived (indirect) demand
- Individual demand and Aggregate/market Demand
- Firm and Industry Demand
- Demand by market segments and by total Market

Law of Demand

- A decrease in the price of a good, all other things held constant, will cause an increase in the quantity demanded of the good.
- And Vice-versa

An Example

(the inverse relationship, i.e., The Law of Demand)



Determinants of Demand

- Income
- Prices of substitutes
- Prices of complements
- Advertising
- Population
- Consumer expectations

How Advertising?

- Advertising influences consumer choice and preferences.
- Advertising budgets of profit-seeking firms indicate that it influences consumer choices.
- Advertising can:
 - reduce the search time of consumers
 - help them make more informed choices
 - provide assurances with regard to quality (through brand names).



Demand Function

Dx = **f** (**y**, **Px**, **Ps**, **Pc**, **T**; **Ep**.**Ey**; **N**, **D**, **u**)

Where,

Dx = Demand for good X

Y = Consumers' Income

Px = Price of Good X

Ps = Prices of substitutes of X

Pc = Prices of complements of X

T = measures of consumers' tastes & prefernces

Ep & Ey = Consumers' expectation about future prices & incomes

N = Number of consumers

D = distribution of consumers

U = others

Change in Quantity Demanded



Change in Quantity Demanded



Changes in Demand

- Change in Buyers' Tastes
- Change in Buyers Incomes
 - Normal Goods
 - Inferior Goods
- Change in the Number of Buyers
- Change in the Price of Related Goods
 - Substitute Goods
 - Complementary Goods

Change in Demand



Change in Demand



What is the difference between a change in the quantity demanded and a change in demand?

Change in Quantity Demanded



What Causes a Change in the Quantity Demanded?

Only one thing - a change in the price of the product!

Change in Demand



What Causes a Change in Demand?

- A change in one of the ceteris paribus conditions. What are they?
 - A change in the income of the consumer.
 - A change in the consumer's taste (the whole point of advertising).
 - A change in the price of a related product.
 - Substitutes
 - complements
- For the market, a change in the number of potential consumers.

The more competition, the less the slope of the demand curve.



Law of Supply

- A decrease in the price of a good, all other things held constant, will cause a decrease in the quantity supplied of the good.
- An increase in the price of a good, all other things held constant, will cause an increase in the quantity supplied of the good.

Change in Quantity Supplied



Change in Quantity Supplied



Changes in Supply

- Change in Production Technology
- Change in Input Prices
- Change in the Number of Sellers

Change in Supply

Price

An <u>increase in supply</u> refers to a rightward shift in the market supply curve.



Change in Supply

A decrease in supply refers to a leftward shift in the Price market supply curve. P_0 Quantity Q_0 \mathbf{Q}_1

Supply Shifters

- Input prices
- Technology or government regulations
- Number of firms
- Substitutes in production
- Taxes
- Producer expectations

The Supply Function

- An equation representing the supply curve: $Q_x^S = f(P_x, P_R, W, H,)$
 - $Q_x^S =$ quantity supplied of good X.
 - $P_x = price of good X.$
 - $P_R =$ price of a related good
 - W = price of inputs (e.g., wages)
 - H = other variable affecting supply

Market Equilibrium

• Balancing supply and demand $Q_x^{S} = Q_x^{d}$

If price is too low...



If price is too high...

