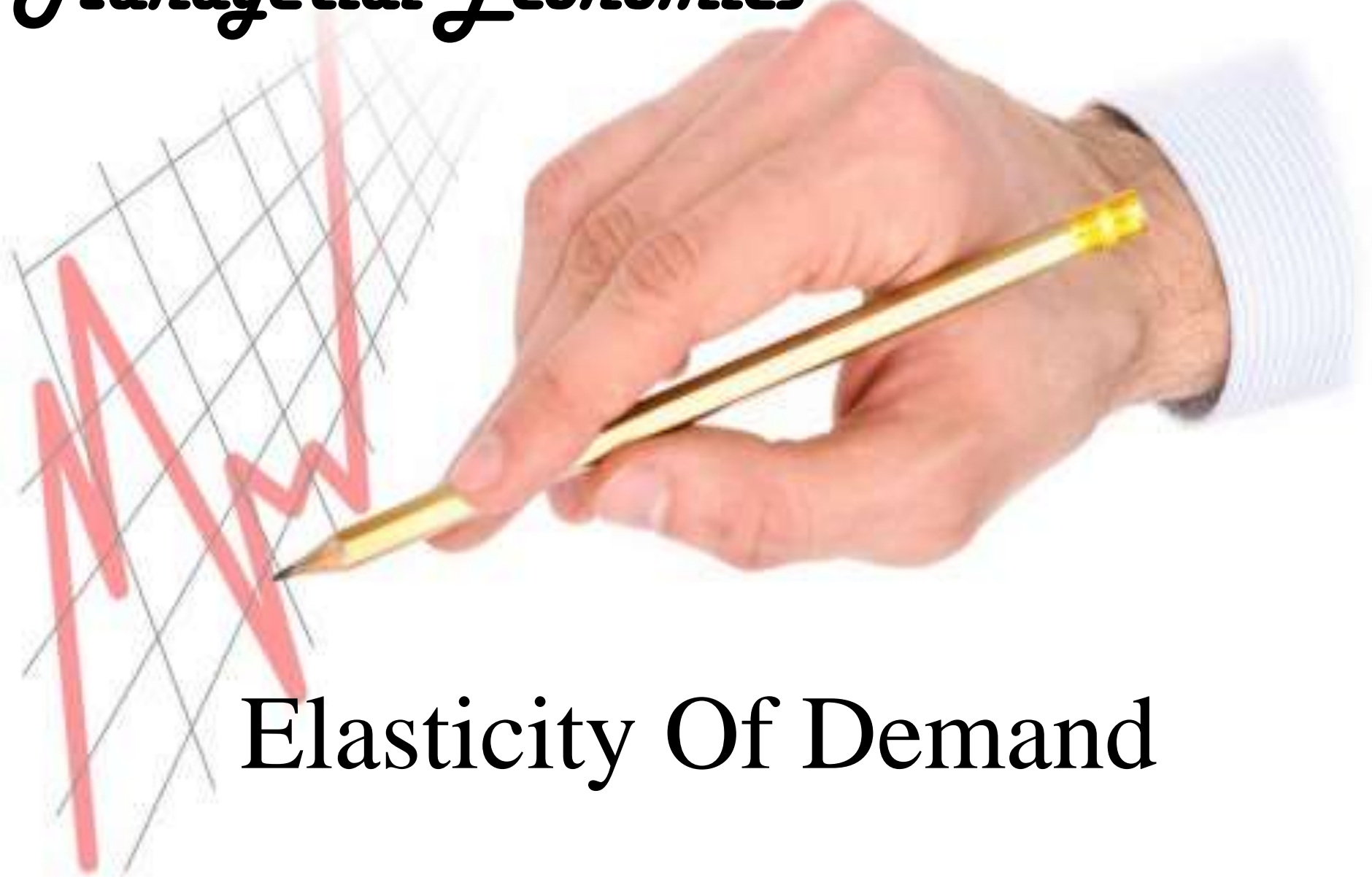


Managerial Economics



Elasticity Of Demand

CONCEPTS OF ELASTICITY OF DEMAND

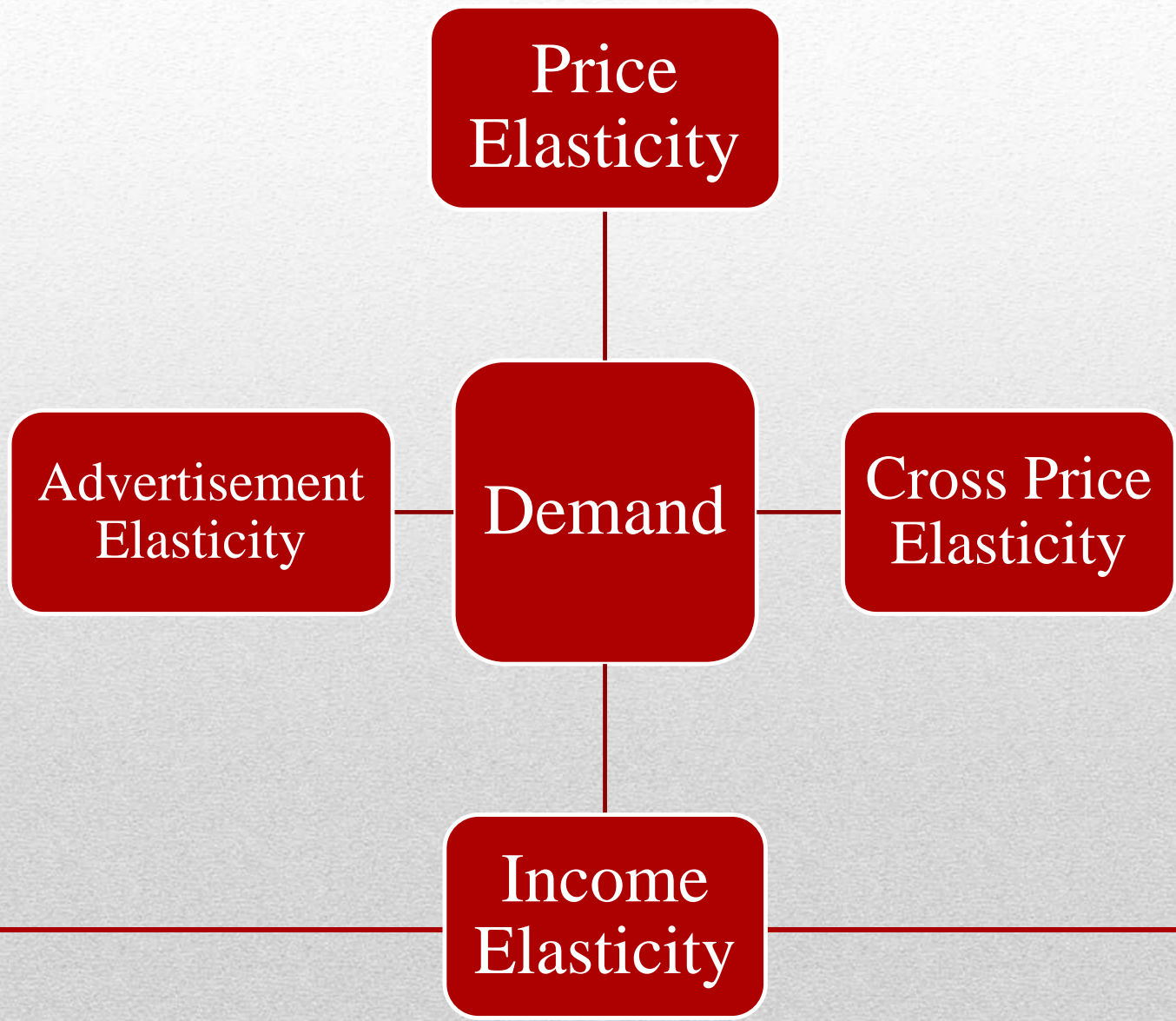
Two Variables are considered while measuring the elasticity of demand :-

- Demand
- Determinants Of Demand

$$\text{Elasticity Of Demand} = \frac{\text{percentage change in quantity demanded}}{\text{percentage change in determinant of demand}}$$



TYPES OF ELASTICITY OF DEMAND



PRICE ELASTICITY OF DEMAND

The price elasticity of Demand may be defined as the ratio of the relative change in demand and price variables.

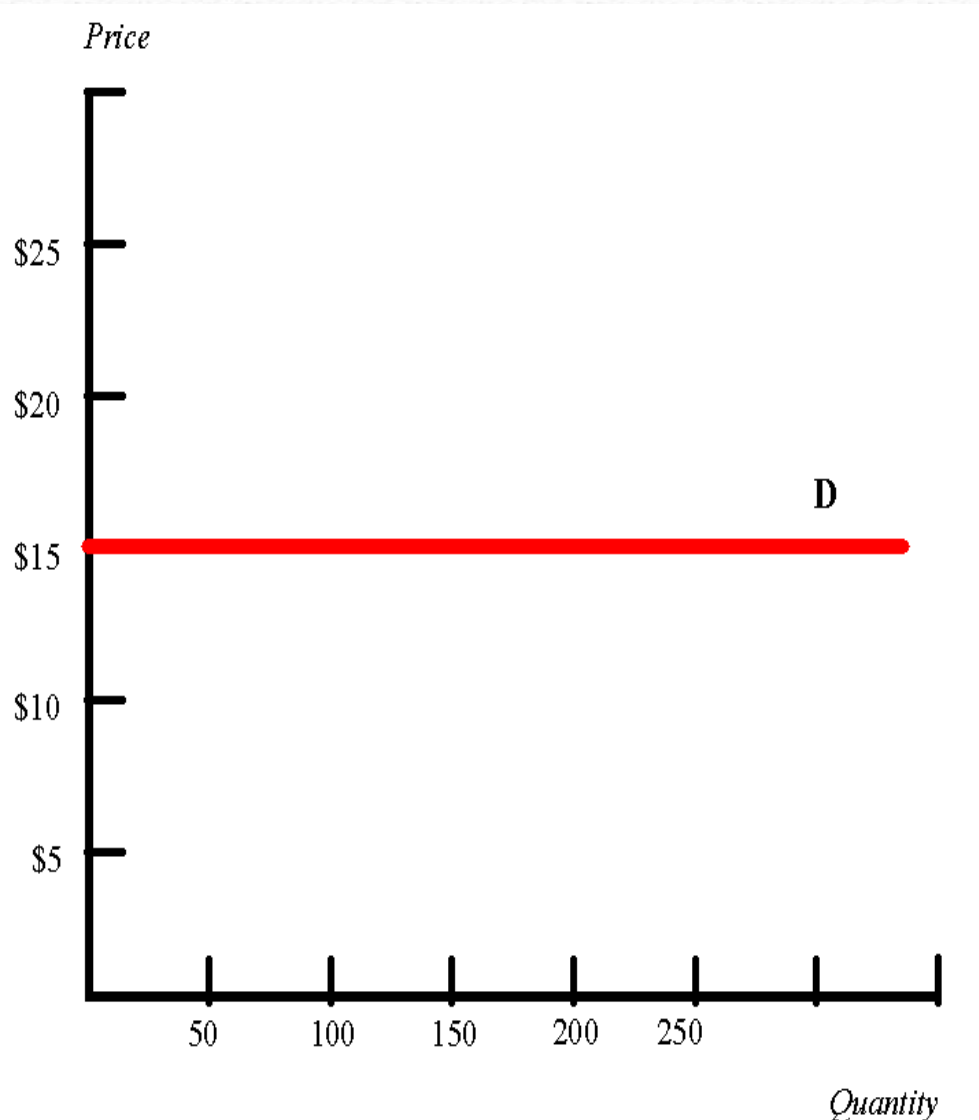
$$e = \frac{\text{percentage/proportional change in quantity demanded}}{\text{percentage/proportional change in price}}$$



TYPES OF PRICE ELASTICITY



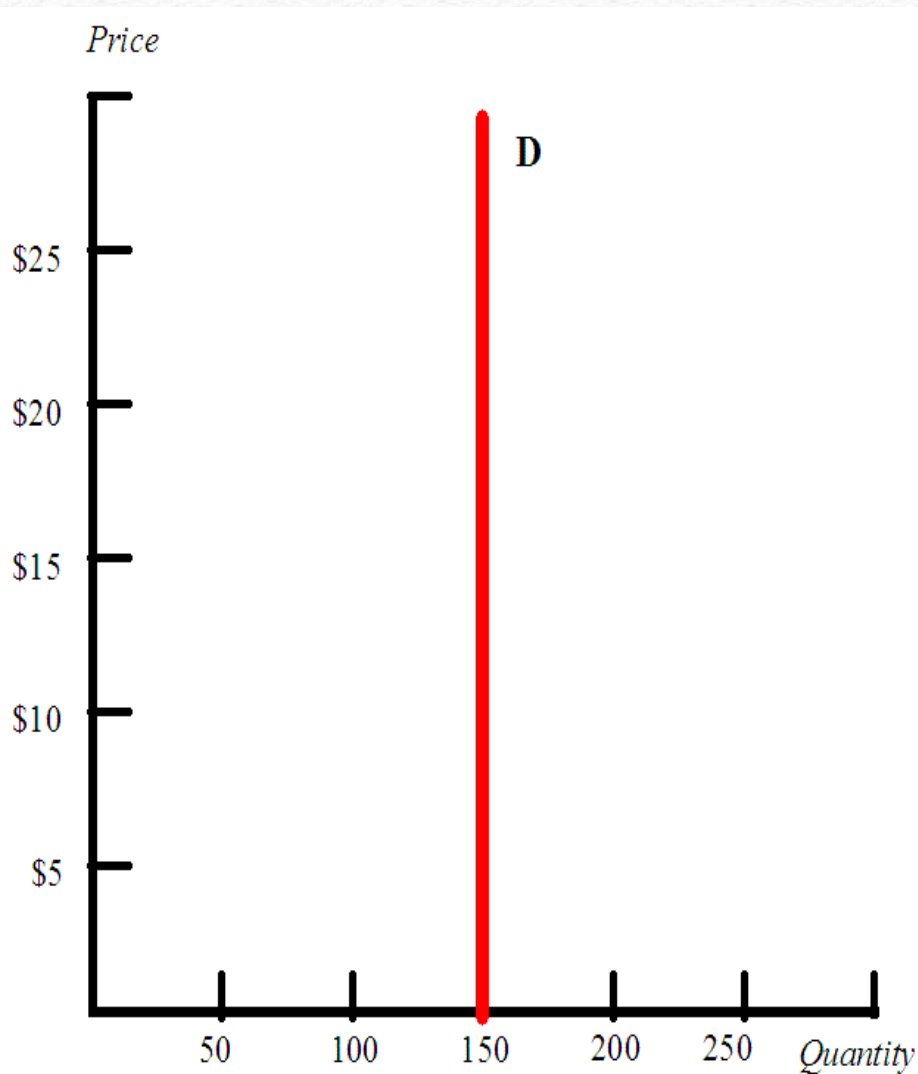
PERFECTLY ELASTIC



Consumers have indefinite demand at a particular price and none at all at an even slightly higher than this given price, demand is PERFECTLY ELASTIC

$$e = \infty$$

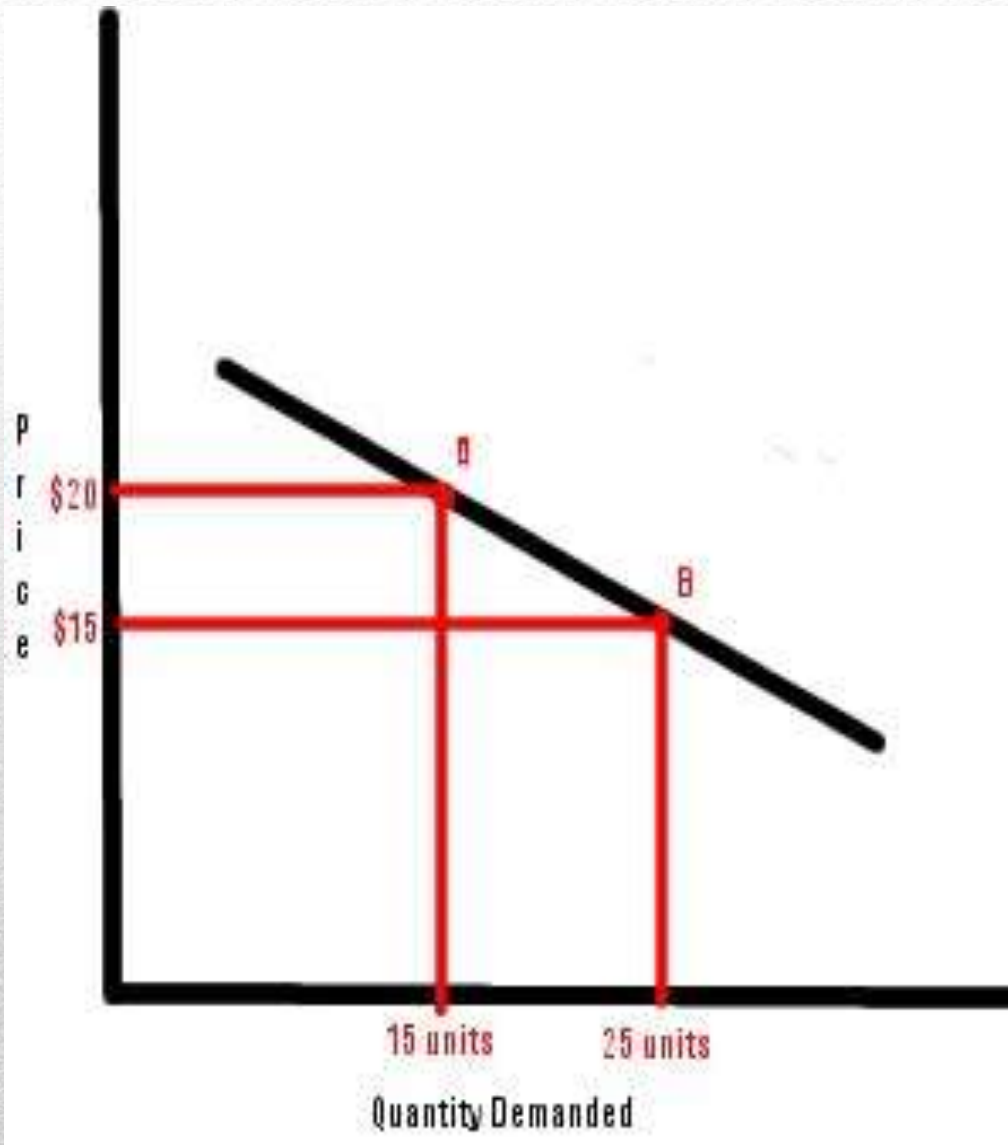
PERFECTLY INELASTIC



When the demand for a commodity shows no response to a change in price/ whatever change in price, the demand remains same, it is called PERFECTLY ELASTIC

$$e = 0$$

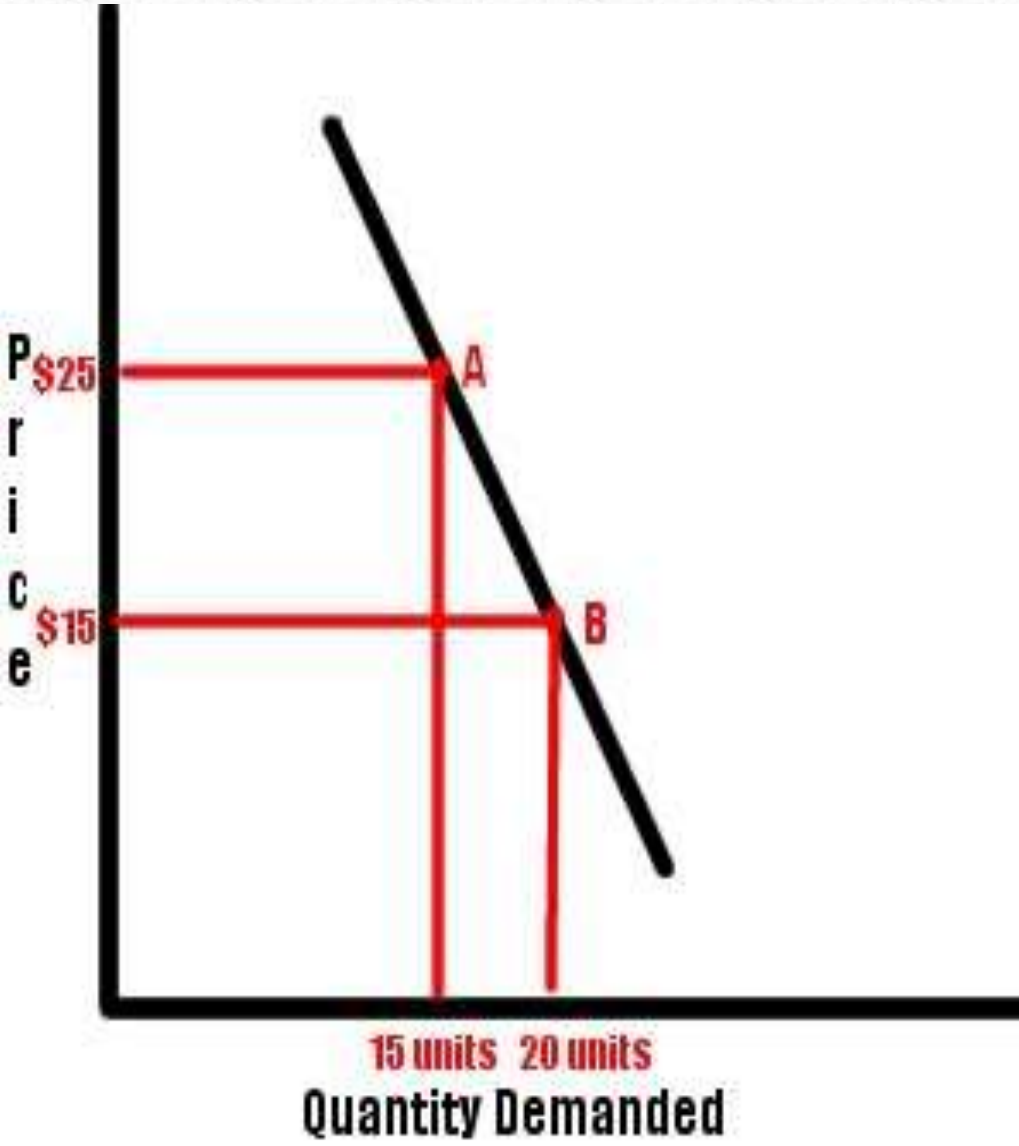
RELATIVELY ELASTIC



When the proportion of change in the quantity demanded is greater than that of price, the demand is said to be RELATIVELY ELASTIC

$$e > 1$$

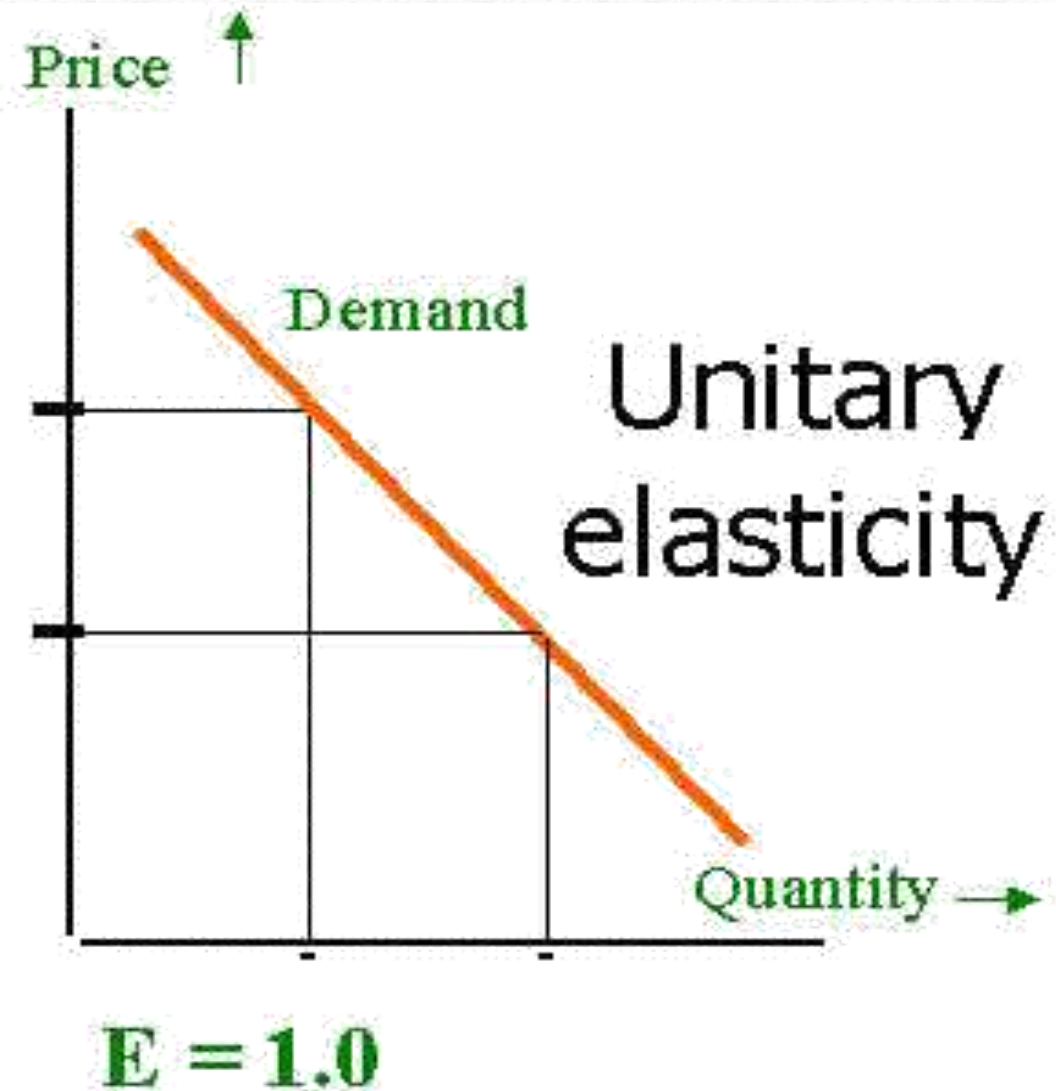
RELATIVELY INELASTIC



When the proportion of change in the quantity demanded is less than that of price the demand is considered to be RELATIVELY INELASTIC

$$e < 1$$

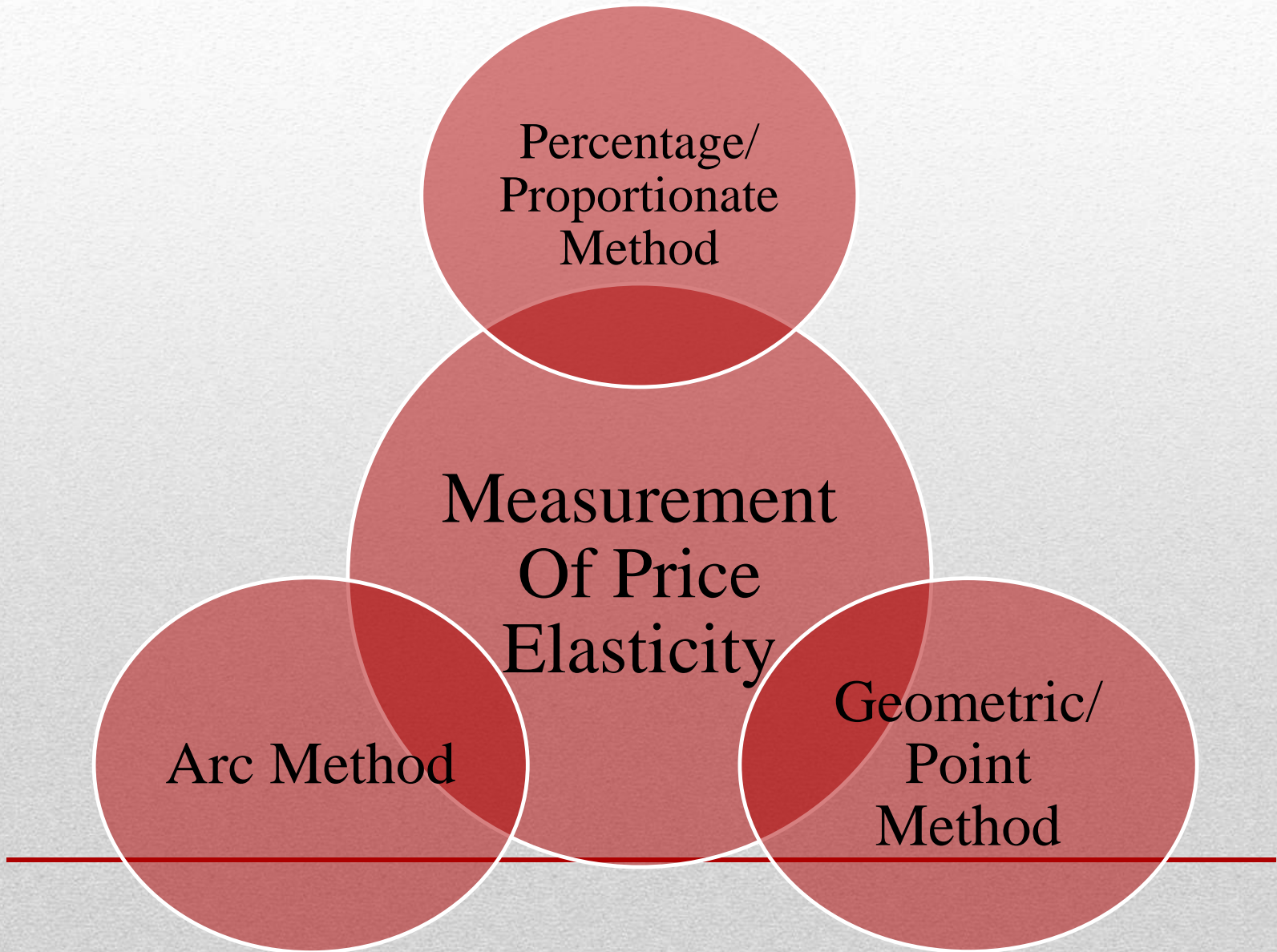
UNITARY ELASTIC



When the proportion of change in demand is exactly the same as the change in price, the demand is said to be UNITARY ELASTIC

$$e = 1$$

MEASUREMENT OF PRICE ELASTICITY



POINT/GEOMETRIC METHOD

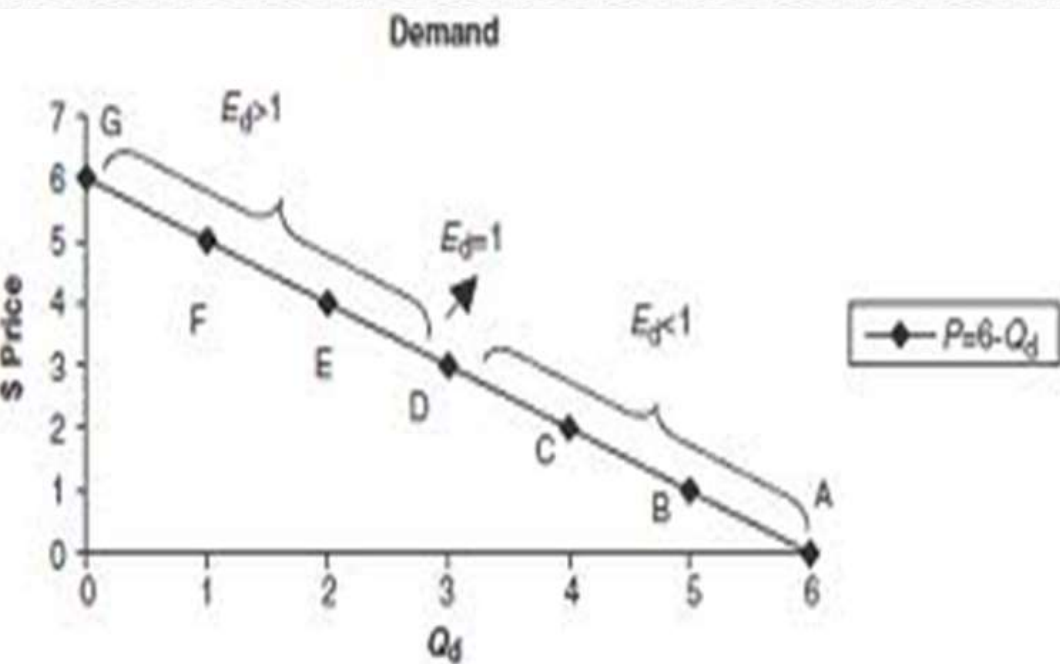
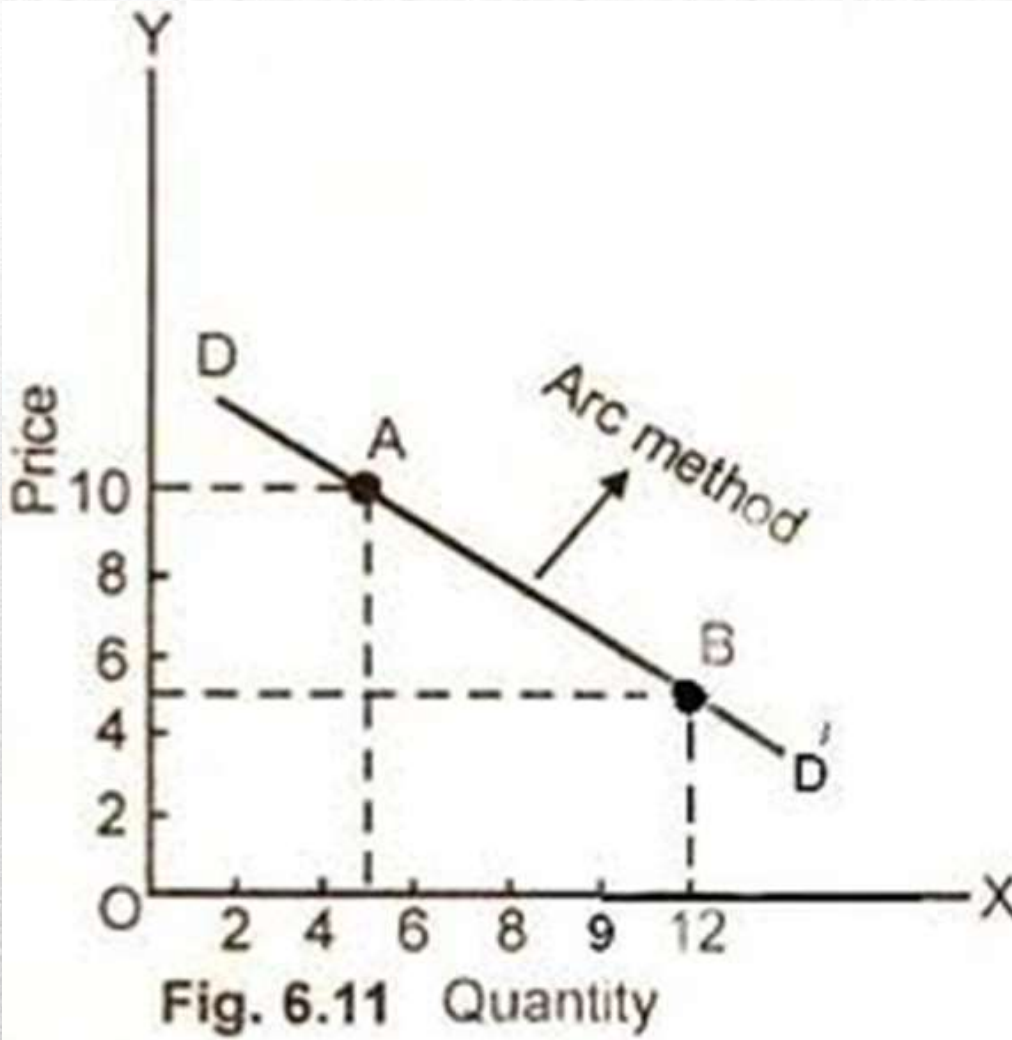


Figure 7.1

This method attempts to measure the price elasticity of demand at a particular point on demand curve

Point Elasticity = Lower segment of demand curve below the point
Upper segment of demand curve below the point

ARC ELASTICITY OF DEMAND



Arc Elasticity of Demand measures the elasticity at the mid point between two points on a curve

INCOME ELASTICITY OF DEMAND

The income elasticity is defined as a ratio percentage or proportional change in the quantity demanded to the percentage or proportional change in income.

$$\text{Income Elasticity} = \frac{\text{percentage change in quantity demanded}}{\text{percentage change in income}}$$

CROSS ELASTICITY OF DEMAND

The cross elasticity of demand refers to the degree of responsiveness of demand for a commodity to a given change in the price of some related commodity.

$$\text{Cross Elasticity Of Demand} = \frac{\text{Proportionate/percentage change in demand for } x}{\text{Proportionate/percentage change in price of } y}$$

FACTORS INFLUENCING ELASTICITY OF DEMAND

- Nature of commodity
 - Availability of substitutes
 - Number of uses
 - Consumers income
 - Height of price and range of price change
 - Proportion of expenditure
 - Durability of the commodity
 - Habit
 - Complementary goods
 - Time
 - Recurrence of demand
 - Possibility of postponement
-

APPLICATION OF INCOME ELASTICITY

- Long term business planning
 - Market strategy
 - Housing development strategies
-

PRACTICAL APPLICATIONS

- To businessmen
 - To the government and finance minister
 - To international traders
 - To policy makers
 - To trade unionists
-



THANK YOU

THANK YOU

