

Head,

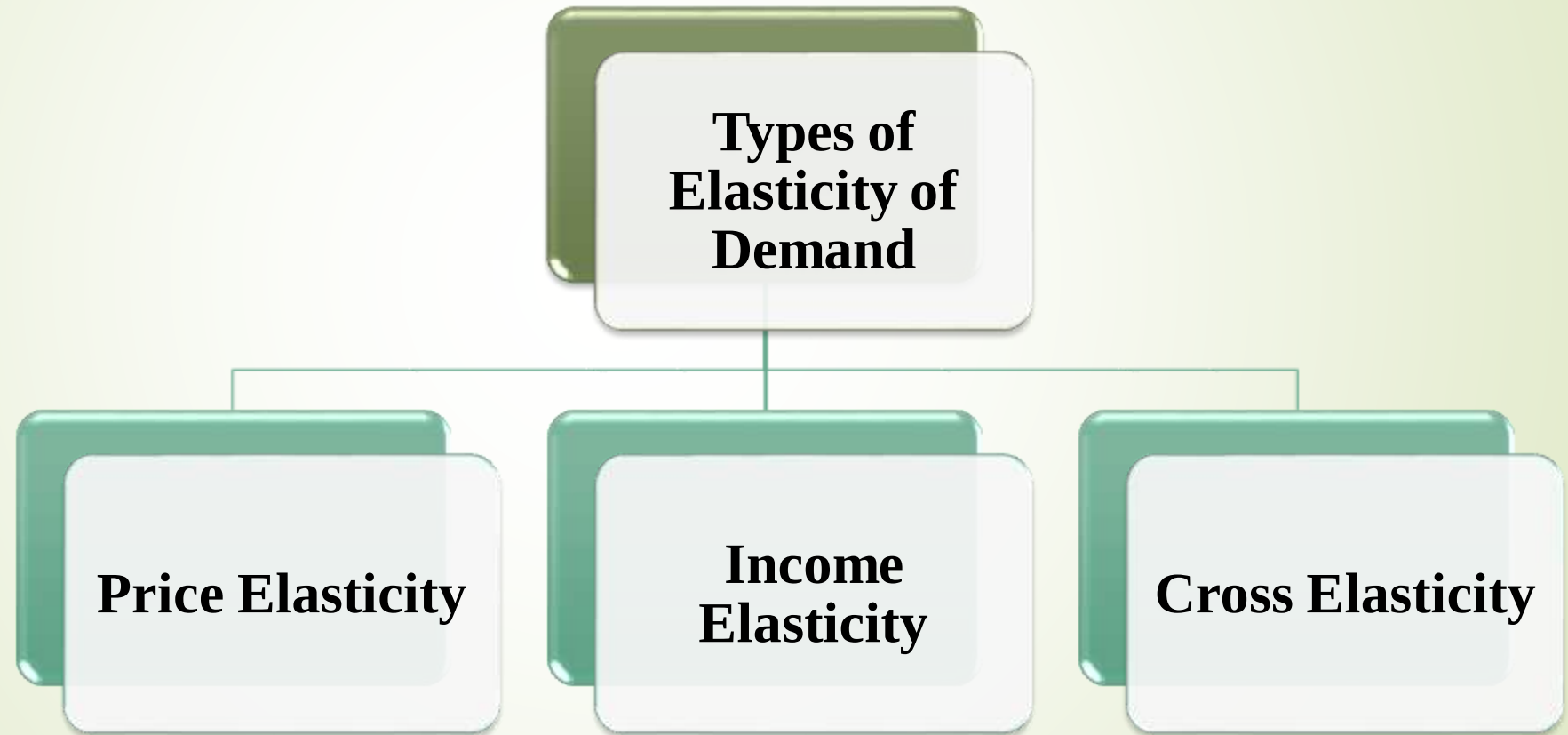
A hand-drawn word cloud on a whiteboard. The word 'ECONOMICS' is written in large, bold, red capital letters across the middle. Above it, various economic terms are written in different colors and sizes, including 'FINANCING', 'BUSINESS', 'REVENUE', 'MANAGEMENT', 'INVESTMENT', 'COOPERATION', 'CURRENCY', 'SUCCESS', 'FINANCE', 'WORTH', 'ECONOMY', 'PROJECT', and 'WEALTH'. Below the main title, a hand is visible holding a black marker, pointing towards the word 'ECONOMICS'. Other words in the lower section include 'CORPORATE', 'ACCESS', 'BUSINESS', 'FINANCING', 'PAY', 'WEALTH', 'CAPITAL', and 'INVEST'. The background is a light gray grid.

Elasticity of demand

- It is defined as the responsiveness of the quantity demanded of good to the change in price, income, and price of related good.

$$E_D = \frac{\% \text{ Change in quantity demanded}}{\% \text{ Change in *any one of the* determinant of demand}}$$

Type of Elasticity of Demand



Price Elasticity of Demand

- Price Elasticity of Demand expresses response of quantity demanded of a commodity to changes in its price.

$$E_P = \frac{\% \text{ change in demand}}{\% \text{ change in demand}}$$

$$E_P = \frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$$

- Where:

ΔQ = Change in quantity

ΔP = Change in price

Q =Original quantity

P =Original price

Degrees of Price Elasticity-

1. Perfectly Elastic Demand-

$$E = \infty$$



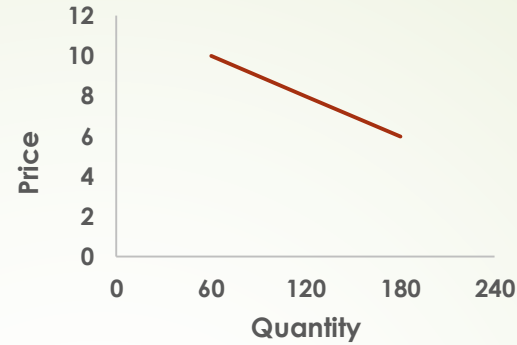
2. Perfectly Inelastic Demand-

$$E = 0$$



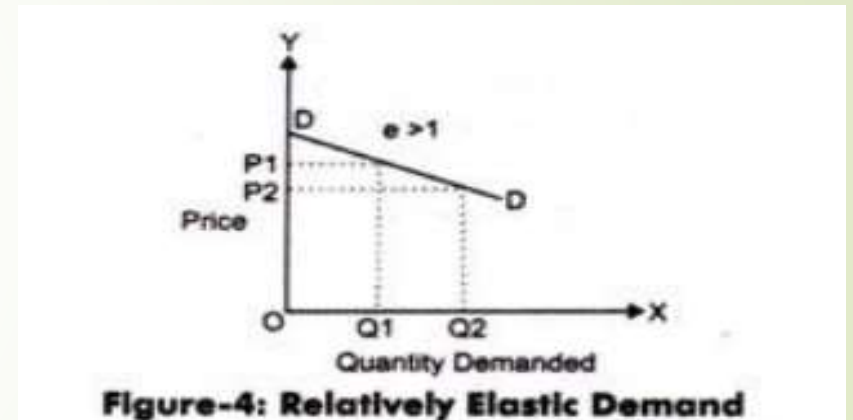
3. Unitary Elastic Demand

$$E=1$$



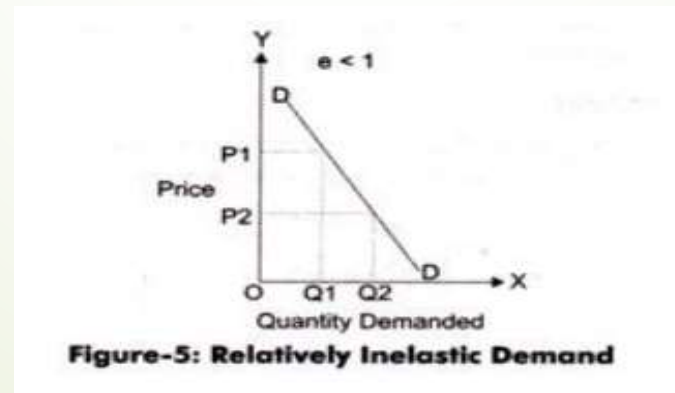
4. Highly Elastic or Relative Elastic Demand

$$E>1$$



5. Inelastic Demand

$$E<1$$



Income Elasticity of Demand-

- The degree of responsiveness of demand for a product to the change in income of a consumer is known as income elasticity.

$$E_Y = \frac{\% \text{ Change in quantity demanded}}{\% \text{ Change in income of consumer}}$$

1. Income elasticity more than 1, it is luxury goods or a superior goods.

$$E > 1$$

2. Income elasticity less than 1, a necessity good or a necessary good is a type of normal good

$$E < 1 \quad \text{- Essential goods}$$

3. Income elasticity is 0, that an increase in income does not change the quantity demanded of the good.

$$E = 0$$

4. Income elasticity is negative is associated with inferior goods.

$$E < 0$$

5. Income elasticity is more than 0 [Positive Income Elasticity]

$$E > 0 \quad \text{Normal goods}$$

6. Income elasticity is equal to 1

$$E = 1 \quad \text{Semi Luxury}$$

Cross Elasticity of Demand

- ▶ A change in price of one article causes a change in demand of another article.

$$E_c = \frac{\text{Proportionate change in purchase of commodity}}{\text{Proportionate change in price of commodity}}$$

1. When cross elasticity is more than 0 (Substitute goods)

$$E_c > 0$$

2. When cross elasticity is less than 0 (Complimentary goods)

$$E_c < 0$$

3. When cross elasticity is equal to 0 (Unrelated goods)

$$E_c = 0$$



References

- **Koutsoyiannis, A Modem Microeconomics, 2nd Edition, Macmillan Publication, Landon.**
- **Salvatore, S., Managerial Economics, Mc Graw Hill Publications.**
- *Dwivedi D N, Managerial Economics, Vikas Publishing House Pvt. Ltd, 2006*