

Formula sheet:

■ CHAPTER 1 - Introduction to Microeconomics

- No formulas
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■ CHAPTER 2 – Consumer Equilibrium

- $MU_x / P_x = MU_y / P_y$ (Utility Maximization Condition)
 - $MU_x = P_x$ (In case of single commodity and constant price)
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■ CHAPTER 3 – Demand

- **Individual Demand Function:** $Q_d = f(P_x, M, P_y, T, E)$
 - **Market Demand:** Σ (Individual Demands)
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■ CHAPTER 4 – Elasticity of Demand

1. **Price Elasticity (E_p):**
 - Point Method: $E_p = (-) dQ/dP \times P/Q$
 - Arc Method: $E_p = (\Delta Q / \Delta P) \times (P_1 + P_2) / (Q_1 + Q_2)$
 2. **Income Elasticity (E_y):**
 $E_y = (\% \text{ change in Quantity Demanded}) / (\% \text{ change in Income})$
 3. **Cross Elasticity (E_c):**
 $E_c = (\% \text{ change in Quantity Demanded of X}) / (\% \text{ change in Price of Y})$
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■ CHAPTER 5 – Production Function

- **Total Product (TP):** Sum of output produced by all units of a factor.
- **Average Product (AP):** $AP = TP / \text{Units of Input}$

- **Marginal Product (MP):** $MP = \Delta TP / \Delta \text{Units of Input}$
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■ CHAPTER 6 – Cost

- **Total Cost (TC):** $TC = TFC + TVC$
 - **Average Fixed Cost (AFC):** $AFC = TFC / Q$
 - **Average Variable Cost (AVC):** $AVC = TVC / Q$
 - **Average Total Cost (ATC or AC):** $AC = TC / Q$
 - **Marginal Cost (MC):** $MC = \Delta TC / \Delta Q$
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■ CHAPTER 7 – Revenue

- **Total Revenue (TR):** $TR = \text{Price} \times \text{Quantity}$
 - **Average Revenue (AR):** $AR = TR / Q = \text{Price}$
 - **Marginal Revenue (MR):** $MR = \Delta TR / \Delta Q$
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■ CHAPTER 8 – Producer's Equilibrium

- **MR = MC** (and MC cuts MR from below)
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■ CHAPTER 9 – Supply

- **Supply Function:** $Q_s = f(P_x, \text{Prices of related goods, Technology, Cost of inputs, Goals of producers})$
 - **Price Elasticity of Supply (Es):**
 - Point Method: $Es = (dQ/dP) \times (P/Q)$
 - Arc Method: $Es = (\Delta Q / \Delta P) \times (P_1 + P_2) / (Q_1 + Q_2)$
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■ CHAPTER 10 – Main Market Forms

- **TR, AR, MR relations:**
 - Perfect Competition: $AR = MR = \text{Price}$
 - Monopoly: $AR > MR$

■ CHAPTER 11 – Price Determination

- **Equilibrium Condition:** $Q_d = Q_s$
- **Shortage:** $Q_d > Q_s \rightarrow \text{Price rises}$
- **Surplus:** $Q_d < Q_s \rightarrow \text{Price falls}$



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