

Review Notes - Micro Review

- Definitions
 - What is Economics? Microeconomics? Macroeconomics?
 - Scientific Method
 - Positive versus Normative Analysis/Statements
 - Opportunity Costs
 - Scarcity
 - Rationality
 - Real versus Nominal Prices

- Production Possibility Frontier Model
 - assumption of the model
 - scarcity
 - understanding the model
 - what does the frontier represent/how does it divide up the production space?
 - how does the frontier move?
 - increase or decrease in technology?
 - increase or decrease in resources?
 - how is opportunity costs demonstrated in the model?
 - What does the model show?
 - Scarcity
 - Technological efficiency and inefficiency
 - Unemployment and full employment of resources
 - Opportunity cost
 - Law of diminishing returns/law of increasing (opportunity) costs (what is the difference between the two?)
 - How choices made today affect future production possibilities

- Demand Defined
 - definition
 - the law of demand (as P increases \Rightarrow Q_d decreases)
 - Why?
 - substitution effect
 - income effect
 - absolute vs. relative price for the law of demand

- market demand
 - Other influences on Demand
 - tastes and preferences: as they increase \Rightarrow D increases and reverse
 - income (Y)
 - normal goods: as Y increases \Rightarrow D increases and reverse
 - inferior goods: as Y increases \Rightarrow D decreases and reverse
 - the price of related goods
 - substitutes in consumption: as P_s increases \Rightarrow D increases and reverse
 - complements in consumption: as P_c increases \Rightarrow D decreases and reverse
 - the number of demanders (buyers) in a market: as # increases \Rightarrow D increases and reverse
 - expectations about the future: if expect P increase in the future \Rightarrow D increases in the present and vice versa
 - Change in Demand (D) vs. change in Quantity Demanded (Q_d)
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- Supply Defined
 - definition
 - the law of supply (as P increases \Rightarrow Q_s increases)
 - market supply
 - Other influences on Supply (besides the good's own price)
 - costs of production: as costs increases \Rightarrow S decreases and reverse
 - technology: as tech. increases \Rightarrow costs decrease and reverse
 - input prices: as input prices increases \Rightarrow costs increase and reverse
 - the price of related goods
 - substitutes in production: as P_s increases \Rightarrow S decreases and reverse
 - complements in production: as P_c increases \Rightarrow S increases and reverse
 - the number of suppliers (firms) in a market: as # increases \Rightarrow S increases and reverse
 - expectations about the future: if expect P increases in the future \Rightarrow S decreases in the present and vice versa
 - Change in Supply (S) vs. change in Quantity Supplied (Q_s)
 - Demand and Supply as flow variables (vs. stock variables)
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- Market equilibrium
 - Definitions

- equilibrium
 - stable equilibrium
 - How does the market attain equilibrium?
 - excess demand or a shortage
 - price competition among consumers
 - excess supply or a surplus
 - price competition among suppliers
 - Predictions about equilibrium P and Q
 - increase in D => what happens to equilibrium P and Q?
 - decrease in D => what happens to equilibrium P and Q?
 - increase in S => what happens to equilibrium P and Q?
 - decrease in S => what happens to equilibrium P and Q?
 - increase in D and increase in S => what happens to equilibrium P and Q?
 - increase in D and decrease in S => what happens to equilibrium P and Q?
 - decrease in D and increase in S => what happens to equilibrium P and Q?
 - decrease in D and decrease in S => what happens to equilibrium P and Q?
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- Elasticity
 - Definition of 4 different types
 - Price Elasticity of Demand (η)
 - Price Elasticity of Supply (η_s)
 - Income Elasticity of Demand (η_y)
 - Cross Elasticity of Demand ($\eta_{x,y}$)
 - Interpretation of size and sign of the elasticity coefficient for each type of elasticity.
 - sign
 - $-\eta < \text{or} = 0$ always; reflects the law of Demand (as P increases => Q_d decreases)
 - $-\eta_s > \text{or} = 0$ always; reflects the law of Supply (as P increases => Q_s increases)
 - $-\eta_y$; if $\eta_y > 0$ => as income increases, Q_d increases, => the good is normal.
if $\eta_y < 0$ => as income increases, Q_d decreases, => the good is inferior.
 - $\eta_{x,y}$; if $\eta_{x,y} > 0$ as P_x increases, Q_d of y increases => x and y are substitutes.
if $\eta_{x,y} < 0$ as P_x increases, Q_d of y decreases => x and y are complements.
if $\eta_{x,y} = 0$ as P_x increases, Q_d of y is constant => x and y are unrelated.

- size
 - $-\eta$; if $\eta > 1 \Rightarrow$ D is price **elastic** ($\% \Delta Q_d > \% \Delta P$) .
if $\eta < 1 \Rightarrow$ D is price **inelastic** ($\% \Delta Q_d < \% \Delta P$) .
if $\eta = 1 \Rightarrow$ D is **unitarily** elastic ($\% \Delta Q_d = \% \Delta P$) .
 - $-\eta_s$; if $\eta_s > 1 \Rightarrow$ S is price **elastic** ($\% \Delta Q_s > \% \Delta P$) .
if $\eta_s < 1 \Rightarrow$ S is price **inelastic** ($\% \Delta Q_s < \% \Delta P$) .
if $\eta_s = 1 \Rightarrow$ S is **unitarily** elastic ($\% \Delta Q_s = \% \Delta P$) .
 - $-\eta_y$; if $|\eta_y| > 1 \Rightarrow$ D is income **elastic** ($|\% \Delta Q_d| > |\% \Delta Y|$) .
if $|\eta_y| < 1 \Rightarrow$ D is income **inelastic** ($|\% \Delta Q_d| < |\% \Delta Y|$) .
if $\eta_y > 1 \Rightarrow$ the good is a luxury.
if $0 < \eta_y < 1 \Rightarrow$ the good is a necessity.
 - $-\eta_{x,y}$; if $\eta_{x,y} > 0 \Rightarrow$ as $\eta_{x,y}$ increases x and y become closer substitutes.
if $\eta_{x,y} < 0 \Rightarrow$ as $\eta_{x,y}$ decreases (increases in absolute value) x and y become closer complements.
 - **make sure you know how to interpret elasticity coefficients**
 - **likewise, make sure you understand the difference between arc and point elasticity formulas**
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- Efficiency
 - allocative efficiency and inefficiency
 - MSB and MSC (what are those?)
 - efficiency occurs where?
 - technological efficiency and inefficiency
 - definition
 - Applications
 - Health Insurance
 - what is the impact of regular third-party health insurance?
 - to price and quantity?
 - allocative efficiency?
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