ECON 120 Supply and Demand **Cheat Sheet Test 2**

Introduction

Economics is the study of decisions in light of scarcity of the factors of production: labour, capital, land, etc.

For any decision, the the opportunity cost is what was the next best option

Generally, economies gain efficiency from specialization (of processes) and division (within processes) of labour

As entire nations begin specializing, the process of globalization interlinks the world's economy.

Economic systems exist as mixed market-command: no system is purely one or the other (also traditional economies on the side lol).

Theories are defined using normative (opinions) and positive statements.

All economic models assume things. like that people act rationally. They predict relations between exogenous, or independent, and endogenous, or dependent, variables

Production Possibility Frontiers

Graph of the maximum quantity produced of good A vs good B Efficient and reasible Tax Opportunity cost = dA/dB Careful: unemployment moves current point

inwards, not the whole PPF

Feasible but Inefficient

Linear PPF

Perfectly efficient resource re-allocation. Constant opportunity cost equal to line's slope.

Bowed Out PPF

Inefficient resource allocation. Opportunity cost increases with production.

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Government Intervention of supply

Floors bind above equilibrium, ceilings bind below

PPF Expands

Technological

increase.

decrease.

PPFs bowed inwards, where opportunity

realistic, but would have something to do

cost decreases with production, aren't

with economies of scale.

Possibilities expanded.

advancement, population

PPF Contracts

Possibilities contracted.



Deadweight loss is proportional to the difference in elasticity of supply and demand

Tax incidence on suppliers and consumers depends on the proportion of the tax price line above/below the equilibrium price line.

Excise The less elastic curve absorbs more tax burden. Tax Just draw triangles for calculation.

complements



Demand Cross-Elasticity

Given cross-elasticity of X and Y, calculate the same way but have good X's demand over good Y's price

> 0 1

η substitutes

Complements are goods that are used together. Substitutes are good sthat can replace each other.

Resource loss, population Income-Demand Elasticity

Calculate the same but instead of price use income

	0	1	n
inferior goods	necessities	luxuries	сц.
	normal good	ls	-

Inferior goods are those people buy less when rich Necessities are staples that everyone needs

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Optimization $\frac{MUx}{Px} = \frac{MUy}{Pv}$ Making a Supply/Demand Curve

Consider the amount of "helpfulness" gained from any specific thing. For supplier, this is units of product. For consumer, units of **utility**.

Utility ≠ value, otherwise water would be more expensive than diamonds. Marginal utility is more accurate: the change in total value from 0 diamonds to 1 is greater than change from 100 litres of water to 101. Thus, optimize the marginal product/utility per dollar.

Consumer Behaviour

Two effects when price goes down: substitution (always up) **income** (depends on elasticity)



Inferior Good

Inferior demand curve *can* slope up.



Giffen goods are super essentials. **Conspicuous consumption** goods are super luxury goods.

Supplier Behaviour

Define time scales based on how many things are variable - in the **short run** only some factors are variable. In the **long** run, all factors are variable. In the very long run, the method of prooduction itself is variable.

Short Run

A supplier's costs can be variable or fixed, so: TC = TFC + TVC

It's best to express these as quantity derivatives: ATC = AFC + AVC

These are minimized when they cross the marginal cost curve ($\Delta TC/\Delta Q$).

If AP > MP, then AP goes down towards MP.

If AP < MP, then AP goes up toward MP.



Very Long Run

In the very long run, you can change the LR-ATC's shape. Technological advancements can move the curve downwards, reducing costs for every possible production combination.



tangent to the budget line. As the **budget line changes**, different isoquants give different optimal points, creating the **demand and** long-run supply curves.



isoquant line as real

Substitution effect is the

change of the the **isocost**

income increases.

This gives the supply/demand curve of one individual in the market. Don't forget that the actual curve is a sum of everyone in the market.

Accounting and Economic Costs

Distinguish accounting profit from econoimc profit by taking into account economic (implicit) costs – opportunity costs incurred from not doing things.

Specifically: cost of people's time, cost of money's time (interest/risk)

Long Run

In the long run, you can jump between SR-ATCs.

All possible short-run cost curves' respective minimum points create a long-run average total cost curve.

The minimized point is where the marginal products per dollar are equal.

As the LR-ATC decreases, the marginal cost (i.e. lowest SR-ATC point) decreases, that is, returns to scale increase.

Decreasing LR-ATC makes an economy of scale, increasing LR-ATC is a diseconomy of scale. When LR-ATC is flat, the scale is called efficient.