

Economics  
A tale of doom

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# Chapter 1

## 1.1 Wednesday, August 14

### Definition 1.1.1: Utility

Utility is the economics term for *benefit*. Marginalism is the economic principle that economic decisions are made and economic behavior occurs in terms of incremental units, rather than categorically. The key insight of marginalism is that people make decisions over specific units of economic goods (economists say "at the margin"), rather than in an all-or-none fashion.

### Definition 1.1.2: How society decides how economics work

- What will be produced?
- How will it be produced?
- Who will receive it?

### Definition 1.1.3: Command Economy vs. Traditional Market Economy

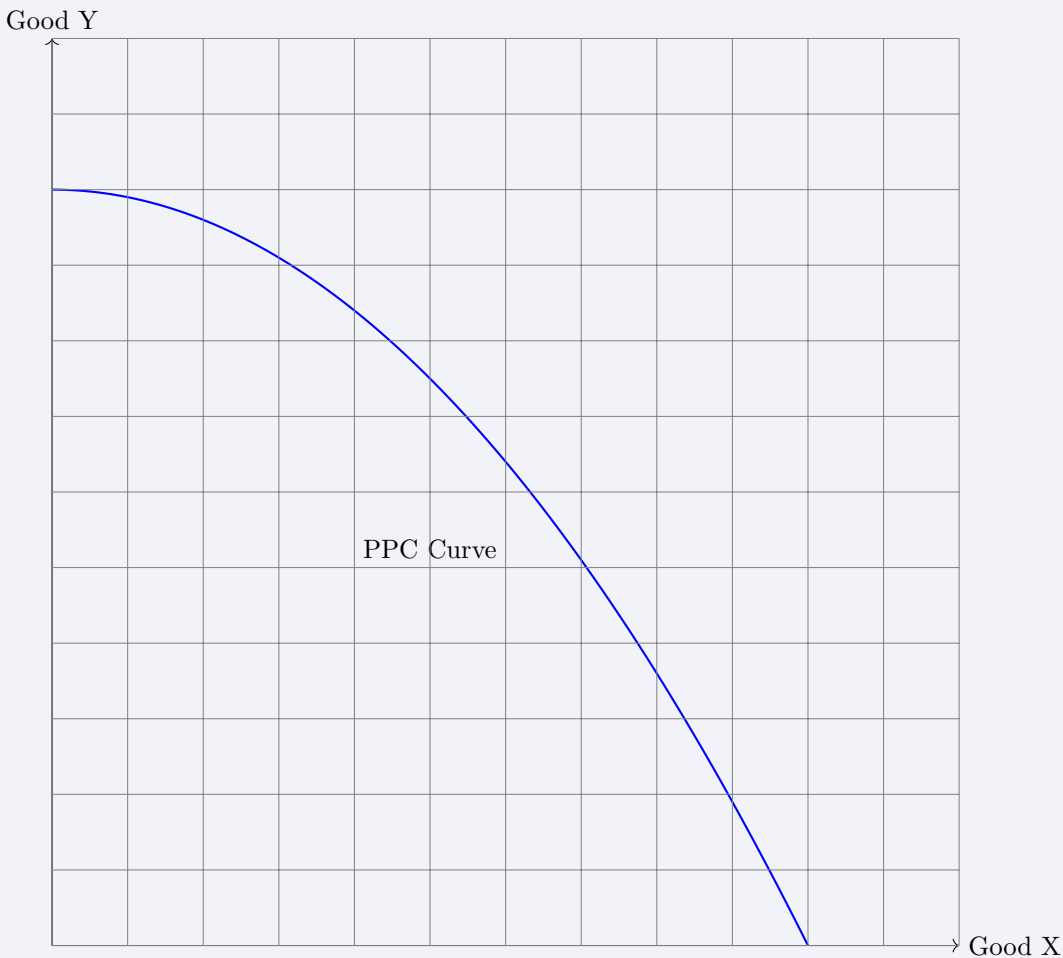
In a command economy the government decides every answer to all of those questions. In a market economy, the people (consumers) have complete control over the first and last answers. Companies have say over the means of production. Here's the stitch: The **Market** decides the reception in reality. There is also a mixed economy, which is somewhere on the spectrum between the two extremes. Pure competition is required to make a Market Economy work.

### Theorem 1.1.1 What does a market Economy create?

- Efficiency
- Quality
- principle
- Innovation

## 1.2 Thursday, August 15

### Theorem 1.2.1 PPC - Product Possibility Curves



That is the curve of 100% efficiency, if a business was working at the capacity of its infrastructure. Each point anywhere in the sample space presented could be the efficient, inefficient, or infeasible. If product production values are beyond the curve, they are infeasible. If inside, inefficient. There is also opportunity cost, where each additional unit of production has a cost in the form of the production of another simply because of the resources used.

### Theorem 1.2.2 Models

A model is any simplified version of reality used to better understand a real-life situation. In economics, it's simply applied mathematics. A PPC is also a type of model because the actual datapoints on the curve are discrete values in real life, which more than the two dimensions presented in slice form here.

#### Definition 1.2.1: What it means for an economy to be Growing

An economy now has more production possibilities, as in the feasible sample space where a production possibility can be chosen from is larger. This can either be because of an increase of availability of a factor of production or better technology.

### Definition 1.2.2: 4 factors of production

- labor
- land
- capital
- entrepreneurship

## 1.2.1 FOP, the Factors of production

### Note:-

WRIP is the acronym for the income streams generated off of the factors of production.

- land → Rent
- labor → wages
- capital → interest
- entrepreneurship → owner and stuff, you know

## 1.3 Friday, August 16h

### Definition 1.3.1: Recession

A recession is a contraction of the economy measured by negative growth of the GDP for 3 months.

### Definition 1.3.2: Economic Growth terms

An expansion is a measurable increase of the PPC boundaries through GDP and other things. Peak is the, well the peak of the growth percentages. Trough is the lowest growth percentage of the contraction cycle. During an expansion:

- Inflation ↑
- Unemployment ↓
- GDP ↑
- Inflation ↑

During a contraction:

- Inflation ↓
- Unemployment ↑
- GDP ↓

Think about each one and why.

### Theorem 1.3.1 The Fed causes recessions

Here's why: to control inflation, the fed must increase interest rates, which makes it harder for people to spend money that they don't actually have. Therefore, businesses don't make as much money, and they

fire people and so on in a death spiral.

### Definition 1.3.3: Inflation vs. Disinflation vs. Deflation

**They're different, be careful.** Inflation is when prices go up. Disinflation is good though, it is the readjustment of the inflation rate to be lower. But when prices go down, disinflation occurs, there's less money on the table for *everyone*.

### Theorem 1.3.2 This is why Innovation and Competition are so important.

They're important because they are the *secure* way to decrease the prices of goods without causing an economic death spiral. Think on it.

#### Note:-

This is the deal. You can't compete - in terms of prices - with another business because someone else can always outbid you. Therefore, you must act on *quality*.

### Definition 1.3.4: Comparative Advantage

Comparative advantage is an economy's ability to produce a particular good or service at a lower opportunity cost than its trading partners. Comparative advantage is used to explain why companies, countries, or individuals can benefit from trade.

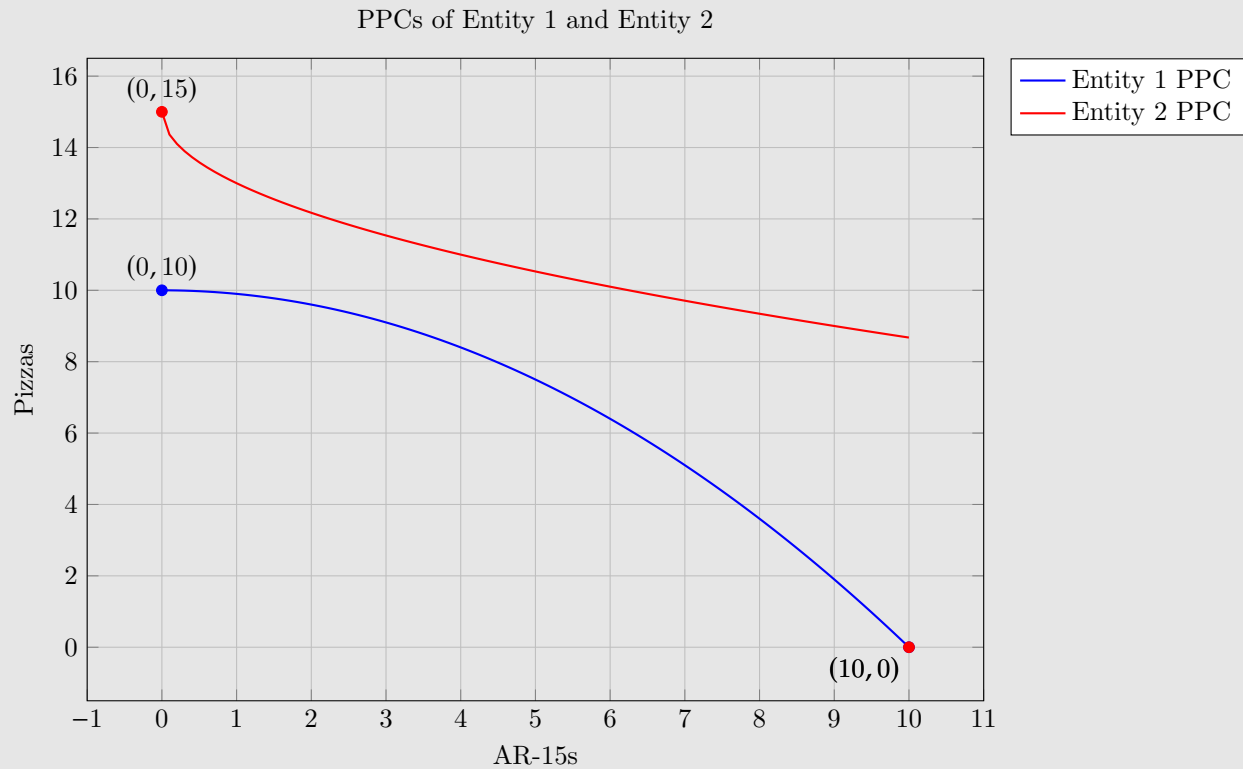
### Definition 1.3.5: Absolute Advantage

Absolute advantage is the ability of an individual, company, region, or country to produce a greater quantity of a good or service with the same quantity of inputs per unit of time, or to produce the same quantity of a good or service per unit of time using a lesser quantity of inputs, than its competitors.

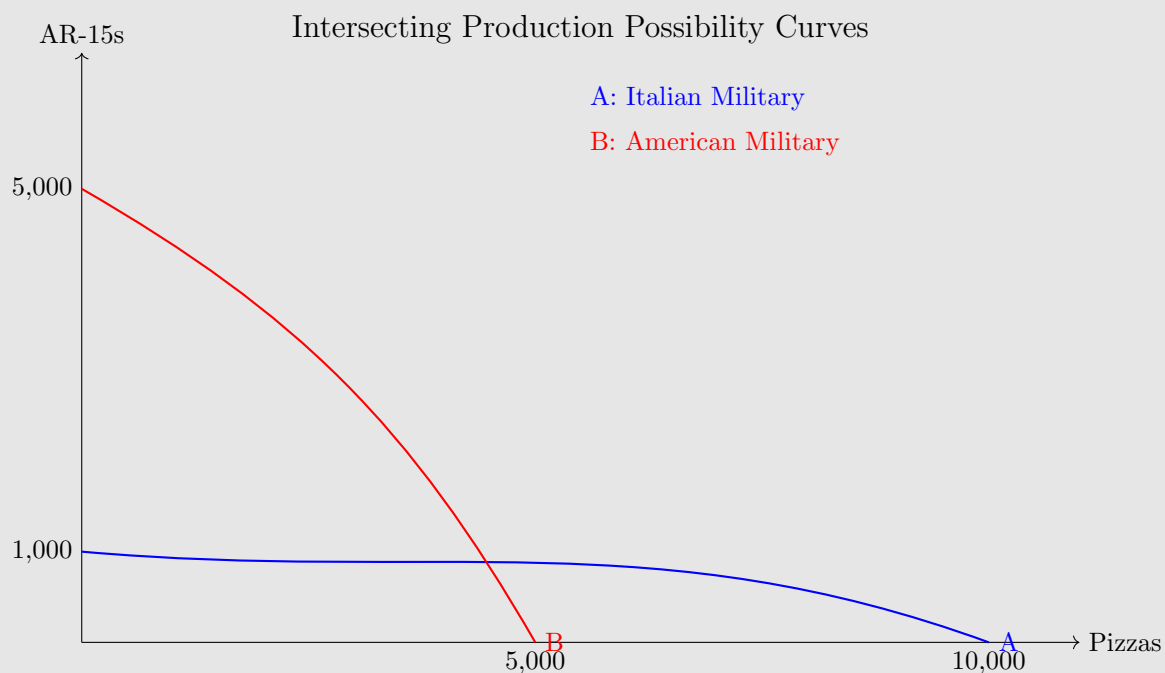
#### Note:-

Absolute advantage only covers that Entity A can make more than Entity B. Comparative advantage is more complicated:

$$\begin{array}{r} \frac{\text{Entity B's import of Good Y}}{\text{Entity A's Good X}} \\ \frac{\text{Entity B's import of Good X}}{\text{Entity A's Good Y}} \\ \frac{\text{Entity A's import of Good Y}}{\text{Entity B's Good X}} \\ \frac{\text{Entity A's import of Good X}}{\text{Entity B's Good Y}} \end{array}$$



This is such a graph where there exists no comparative advantage because the opportunity cost to produce AR-15s vs. That of Pizzas is always cheaper than the **terms of trade** if Entity 1 were to trade with Entity 2. Entity A has the complete Absolute advantage, and has no need to work with Entity 2. However, it is important to note that Absolute advantage does not mean that there does not exist a comparative advantage.



### Definition 1.3.6: GDP

Dollar value of all goods and services produced in the U.S. in one year.

### Definition 1.3.7: Leakage

Leakage is the removing of funds from the circulation in the circular flow model done by consumers otherwise known as "spending."

### Definition 1.3.8: Injection

It's when those same consumers spend the money that they save during leakage.

## 1.4 2024, 27 August, Tuesday

### Definition 1.4.1: Demand Schedule

A demand schedule is a table that shows how much of a good or service consumers will want to buy at different prices.

### Theorem 1.4.1 Demand Theory

Demand theory is the idea that when the price of a good or service increases, the Quantity Demanded for that or  $Q_D$  falls.

### Definition 1.4.2: Demand Curve

A curve drawn through the points of a plotted demand schedule. Demand curves will always **slope toward the bottom right**.

### Definition 1.4.3: Shift in the Curve vs. Movement along it

Every separate curve drawn on the plane is labeled  $D_n$  depending on which order it was presented in the scenario. There are new curves being created as a result of a shift without relation to the price being manipulated in any way, which leads to a completely different demand schedule. There is only a movement on the existing curve when the price is manipulated. If the curve shifts right, that is an increase of demand, or it's a decrease when shifting inward, left, toward the origin.

There are generally 5 shift factors of demand that aren't price, and therefore create a new curve.

- Taste, where the consumers' taste change, and therefore the demand is affected regardless of price of the item.
- Income, where the consumers' income changes, and therefore their ability to buy a product invariant of the price.
- Market Size and population changes are when there is an expansion or contraction of the market
- Expectations of the consumer of things to happen in the future. For example, the consumer would be more pressed to buy an item if it was in store for a limited amount of time. Notice that the variable need not be price in order to manipulate the demand.
- Related goods, or the affect of related goods on the demand of a product. For example, if Iphone sales went down, so would AirPods.



## 1.5 2024, 28 August, Wednesday

Supply is essentially the same, so yeah.

### Definition 1.5.1: Non-price shifters for supply

GETS TIPS

**G - Government Policies:** Changes in government regulations or policies, such as taxes, subsidies, or regulations, can affect supply. For example, a new tax on production might decrease supply, while a subsidy might increase it.

**E - Expectations:** Producers' expectations about future prices can influence their current supply. If they expect prices to rise in the future, they might hold back some of their current supply to sell later at higher prices.

**T - Technology:** Advances in technology can increase supply by making production more efficient. For example, new machinery or better production methods can reduce costs and increase output.

**S - Suppliers:** The number of suppliers in the market can shift supply. If more firms enter the market, the total supply increases. Conversely, if firms exit the market, supply decreases.

**T - Taxes and Subsidies:** Taxes on production or sales can decrease supply, as they increase costs for producers. Conversely, subsidies can encourage production by lowering costs.

**I - Inputs:** The cost and availability of inputs (such as raw materials, labor, and machinery) affect supply. If the cost of inputs rises, production becomes more expensive and supply may decrease. If inputs become cheaper, supply may increase.

**P - Prices of Related Goods:** The prices of related goods, such as substitutes and complements in production, can affect supply. For example, if the price of a substitute good increases, producers might shift resources to produce more of the higher-priced substitute, reducing the supply of the original good.

**S - Size of the Industry:** The overall size of the industry or the number of firms in the market can impact supply. A larger industry or more firms generally means a greater total supply.

## Chapter 2

# Real World examples

### 2.1 2024, 22 August, Thursday

Target just made a massive, but temporary comeback from a long term sales slump by creating discounts that consumers were hooked on. They varied discounts accross products, and only discounted staple goods, not rarley bought items. This was very popular with investors, as the stock jumped 11 percent.

Source: Morning Brew

### 2.2 2024, 28 August, Wednesday

Sausages are an inferior product because consumers almost universally believe that sausage is lower quality protein, than say steak. When consumers have money, they buy steak, which is called the superior product. This is actually a term. In August 2024, Sausage sales were shown to have a record high, which could be taken as an indication that consumers believe worse times are approaching. Source: Morning Brew