Economics: The distribution and use of limited resources with unlimited wants

The 10 Principles of Economics

* People face tradeoffs
  + Efficiency vs equity
    - Efficiency: an outcome is described as efficient if it is impossible to make someone better off without making someone else worse off
  + Safety vs cost
  + Key to successful decision making is knowing the real tradeoffs you face
* Cost of something is what you give up to get it
  + Main cost is time
* Think at the margin
  + Sweaters for $25, 2 for $45, 3 for $60, first cost $25, second cost $20, and the last cost $15
  + Marginal benefit
  + Marginal cost
  + Golden Rule of Optimization: Continue an action until Marginal Benefit = Marginal Cost.
  + Suppose
    - Spent $5000 restoring an old car, get an offer of $7000 for the car, but it needs $5000 more worth of work
  + Models & decision making
    - For a good model, suppose A,B,C are supplied and try to find the steps to F as accurately as possible.
    - Cheese Pizza: $2.99 or 2 slices for $5, 3 slices for $6
    - Competition Exam
      * Bad Bob’s: All You Can Eat $20
      * Applebee’s = $15/plate
* People respond to incentives
* Voluntary trade makes both parties better off
  + Production possibilities frontier
    - A relatively simplified view of the world
    - Based off
      * two goods
      * Production technology
      * Resources
    - Example
      * Frank the Farmer and Rosie the Rancher produce meat and potatoes. Frank can produce one unit of meat in 60 minutes and 1 unit of potatoes in 15 minutes. For eight hours available Rosie can produce 1 unit of meat in 20 minutes and 1 unit of potatoes in 10 minutes.
      * Frank
        + 1 unit of meat cost 4 units of potatoes
        + Inversely 1 unit of potatoes cost ¼ units of meat.
      * Rossie
        + 1 unit of meat cost 2 units of potatoes
        + Inversely 1 unit of potatoes would cost ½ units of meat.
      * Trade between the two (Autarky: a world without trade)
        + Why

The ability to consume more than we would otherwise

Wider variety

Advance economy

* + - * + How

Trade based on comparative advantage

Rossie specializes in meat, Frank in potatoes

Trade is 1 meat for 3 potatoes

With Frank not having to trade 4 potatoes and Rossie gaining more than 2 potatoes makes both parties happy

* + - * + opportunity Cost example

Mow Lawns(L) || Wash Car(W)

Larry: 1L, 1C

Moe: 1L, 2C

Curly: 2L, 1C

To get the best opportunity cost, first have Curly work, then Larry, then Moe

* Institutions Matter: How systems are set up matters
* Trade is based on comparative advantage and that specialization with trade makes both parties better off.
  + That both nations are better off doesn’t mean that everyone in the in nations are better off.
  + Tariffs and import restrictions have tried to restrict/lessen trade.
  + *The Logic of Collective Action* by Mansur Olson.
* How are prices determined?
  + Supply and demand
  + What you want is equilibrium/market price/market clearing price where you do not have any excess and you do not have to many buyers
  + A decrease in supply will increase price, and quantity will move with the supply demand point
  + A change in income will change the demand for a product
  + Normal and inferior goods
  + Fads will control prices
  + Rationing will cause fluctuations in prices
  + Queuing will cause people to judge how much they value their time
  + Quotas could potentially alleviate spikes in demand
  + Similar things happen to supply
    - Prices of related goods will also be fluctuating as the main good does
    - There are two subgoods, compliments and substitutes.
  + It is possible for both curves to shift.
    - When that happens, you will not be able to determine both curves and their intersection
* Elasticity will show how much the market could fluctuate without extreme changes.
  + How responsive quantity is to a change in some other market factor.
  + Price elasticity: ED =
  + ED>1: demand is elastic
  + ED<1: demand is inelastic
  + Determining the Price Elasticity
    - Necessity vs Luxury
      * Necessities are inelastic
      * Luxuries are elastic
    - Number of substitutes/definitions of the market
      * The more substitutions there are, the more elastic the price.
      * The broader we define a market, the less elastic the price.
    - There are areas that are elastic and there are areas that are inelastic
    - Budget share determines price
    - The amount of time it takes to change the supply affects the stability
    - Revenue
    - Wage can be an example of the elasticity overtime, at first there will be little effect, but over time, it will become more extreme and obvious
* Cross-price elasticity
  + How the quantity of an item changes the price and demand of another item