

Unlimited Wants; Limited Resources



Main Ideas

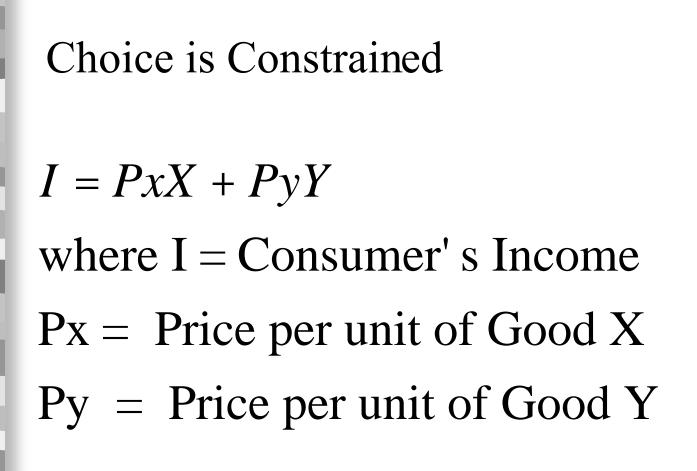
- The market demand is the outcome of decisions made by individual consumers about how to allocate income among competing alternatives. For normal goods, demand will slope down.
- Labor supply is outcome of decisions made by individuals about how to allocate time among competing alternatives. Labor supply may be backward bending.



Assumptions

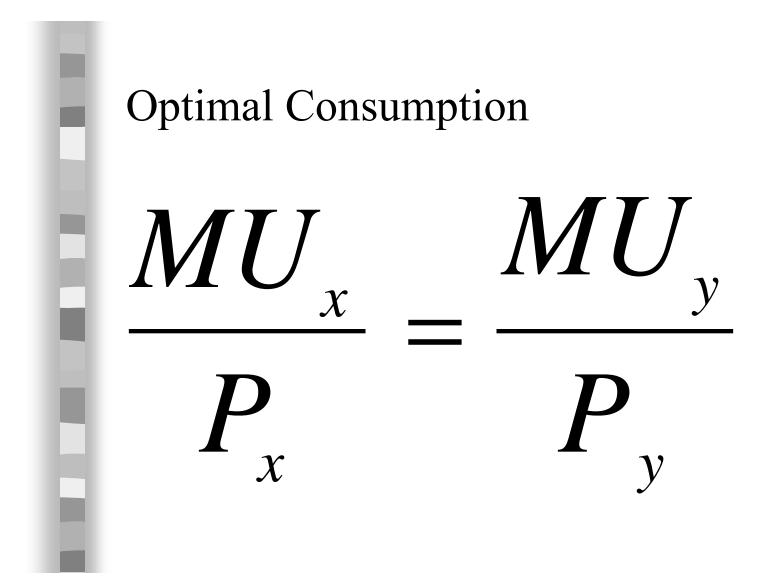
- Consumer maximizes utility
- Utility depends on the quantity consumed of X and Y
- More is better
- Diminishing Marginal Utility
- Consumer is a price taker.
- Consumer income, I, is also predetermined.

Utility U(X, Y)where X = units of Good X Y = units of Good Y





- Allocate Income Such That the Marginal Benefit of an Additional Dollar Spent on Good X Equals Its Marginal Cost.
- Marginal Cost is the Foregone Benefit of Spending Another Dollar on Y. (Opportunity Cost)
- Operate Within Budget







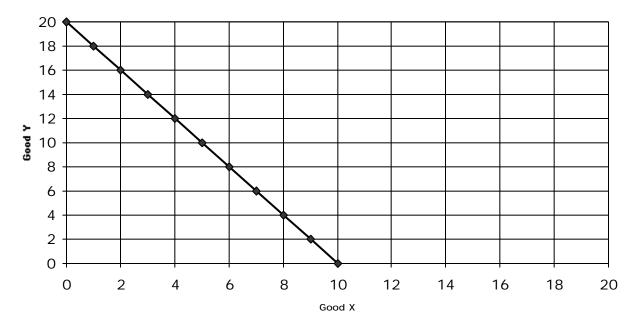
Budget Line

I = PxX + PyY

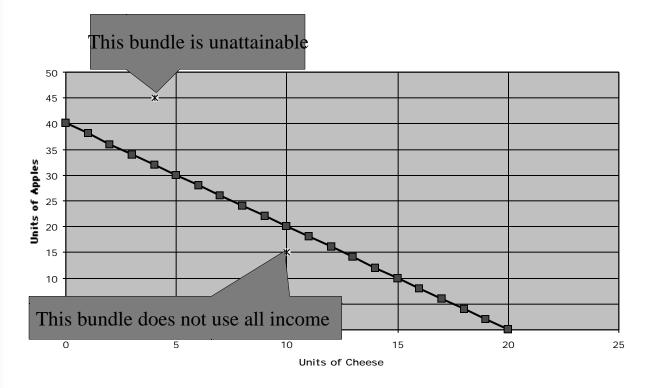
Utility
Indifference Curves

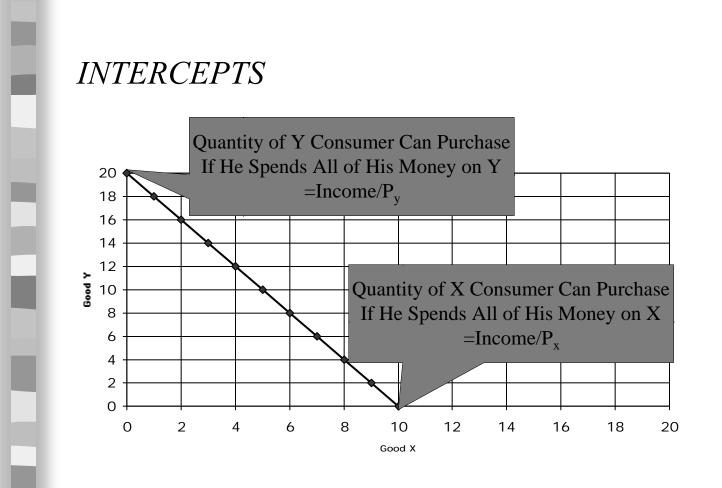


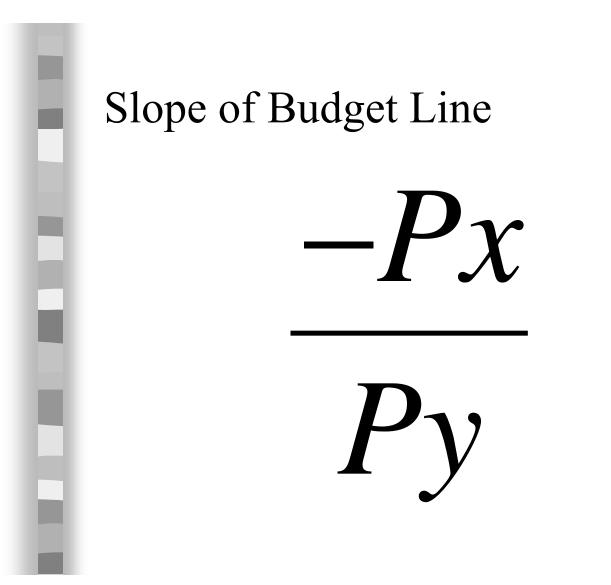
The Budget Line

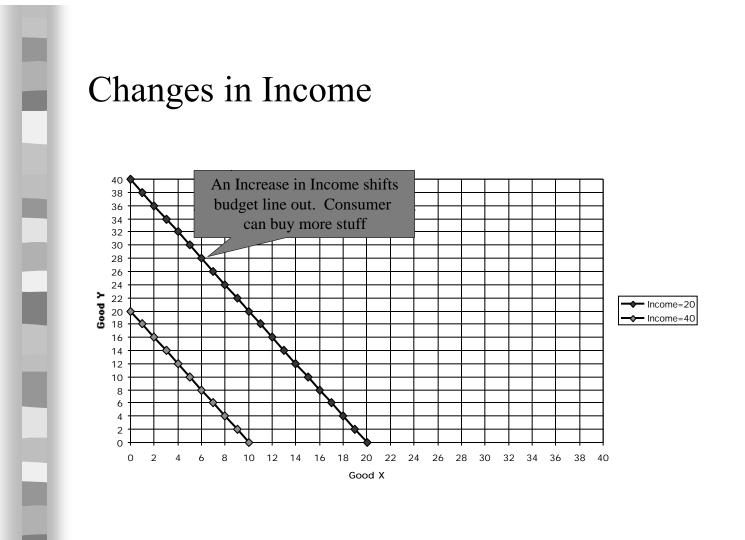


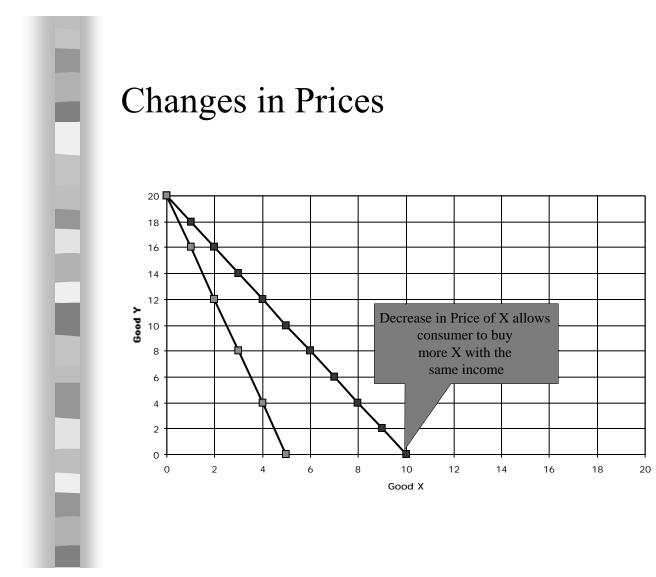










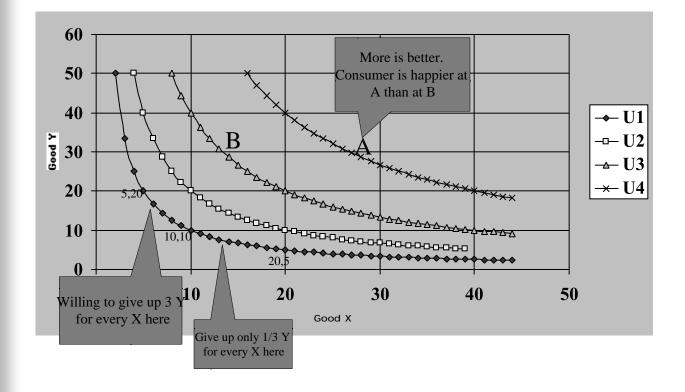


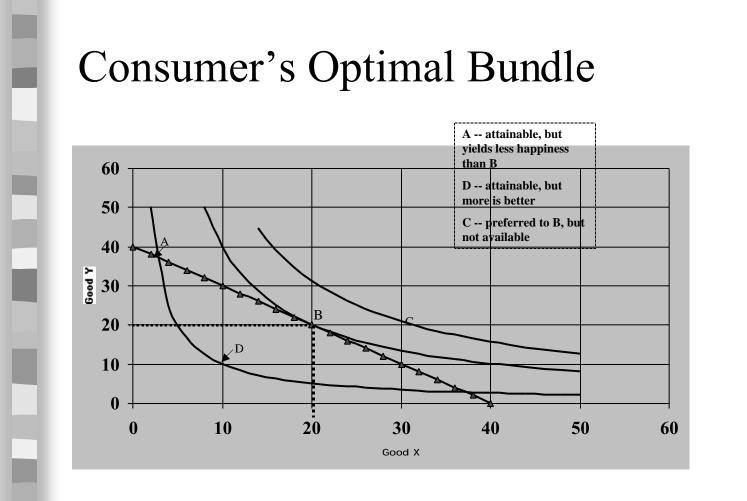


Utility: Indifference Curve

- Describes bundles of X and Y that make the consumer equally happy.
- Each indifference curve represents a level of happiness. The further away from the origin, the greater the happiness
- Slope of indifference curve is the rate of marginal substitution

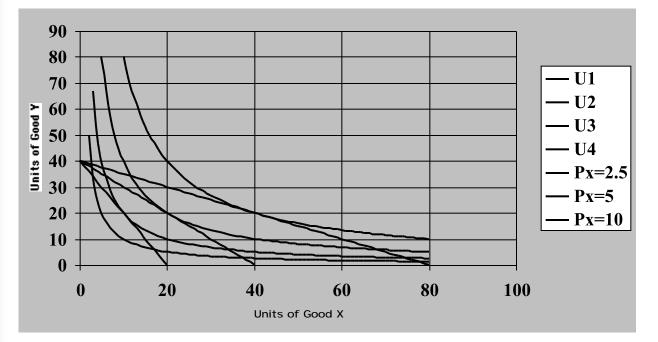






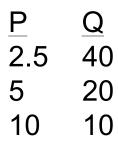


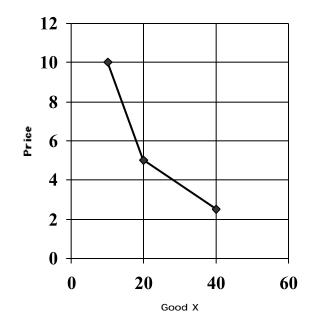
Derivation of Demand





Individual Demand





Impact of Price Change

- Budget set shrinks showing a decrease in real purchasing power
- Slope of budget line changes showing a change in relative prices. As budget line gets steeper, Good X is more expensive relative to Good Y



Two Effects of Price Change

- Income Effect -- an increase in Price of X reduces purchasing power. (Shrinks budget set.) Consumer buys less of normal goods.
- Substitution Effect -- an Increase In Price of X Means X is More Expensive Relative to Y. (Change in slope) Consumer substitutes away from X towards Y.

