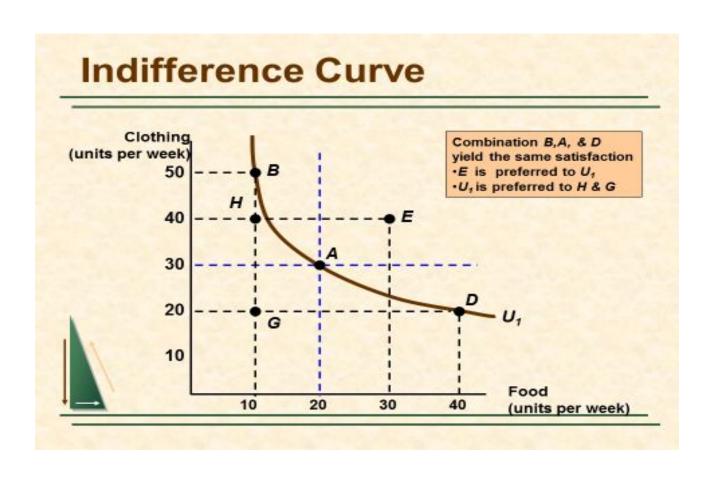
Engineering Economics

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Lecture 8 Theory of Consumer Behavior

- Indifference Curve
- An Indifference curve represents locus of all combinations of market baskets that provide the same level of satisfaction to a person.
- An indifference curve shows the various combinations of commodity X and commodity Y which yield equal utility or satisfaction to the consumer.
- A higher indifference curve shows a greater amount of satisfaction and a lower one, less satisfaction.

Indifference Curve



- Properties of Indifference Curves
- 1. They are negatively sloped
- 2. They are convex to the origin
- 3. They cannot intersect.
- 4. Higher Indifference curve gives higher satisfaction.

- Budget Constraint Line
- Budget constraint line shows all the different combinations of the two commodities that a consumer can purchase, given his or her money income and the prices of the two commodities.

$$M = PxX + PyY$$

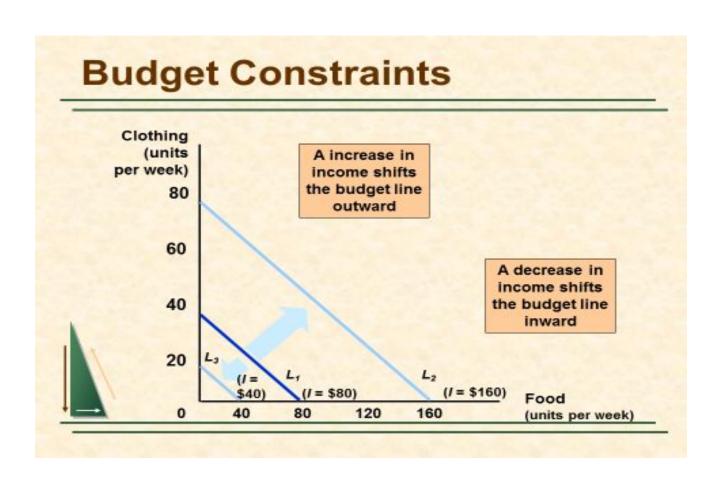
Here,

M= Income

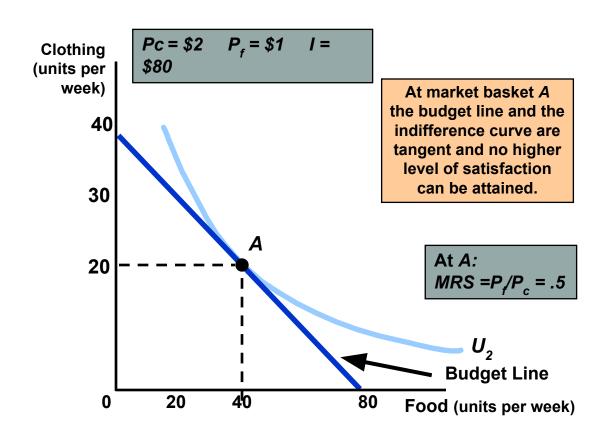
P = Prices of given commodity.

X, Y = Amount of purchase of two commodity.

Budget Constraint Line



- Consumer Equilibrium
- A consumer is in equilibrium when, given personal income and price constraints, the consumer maximizes the total utility or satisfaction from his or her expenditures.
- A consumer is in equilibrium when, given his or her budget line, the person reaches the highest possible indifference curve.
- At equilibrium, indifference curve will tangent with budget constraint line.



- Possible question from this chapter
- Define indifference curve and briefly explain its properties.
- How can we construct budget constraint line.
- Graphically show consumer equilibrium and explain the condition of consumer equilibrium.
- Constrained Optimization Problem

Readings

Lecture Notes



