Key Words Graphs

Review For Midterm

Exam 1 covers from Chapter 1 up to and including Chapter 5.



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There are 8 multiple choice questions (5 pts each), 1 mandatory long answer question (30 pts), and 2 long answer questions (30 points each), of which you choose one.

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Chapter 1

- Economics
- Microeconomics
- Models
- Diminishing returns
- Variables, independent and dependent
- Functions
- intercepts

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Chapter 1

- linear function
- slope
- marginal effect



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Chapter 2

- Utility
- Ceteris paribus
- Assumptions of Preferences
- Indifference curves
- MRS
- Budget constraint

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$$MRS = \frac{P_x}{P_y}$$

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Chapter 3

- Demand function
- Normal good
- Inferior good
- Substitution effect
- Income effect
- Giffen Good

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Chapter 3

- Complements
- Substitutes
- Consumer Surplus
- Price elasticity of demand
- Cross price elasticity of demand
- Income elasticity of demand

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Chapter 4

Probability

- Expected value
- Fair gamble
- Risk averse, loving, neutral

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Chapter 5

- Best response
- Nash equilibrium
- Normal form
- Extensive form
- Dominant strategy

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Chapter 5

Games

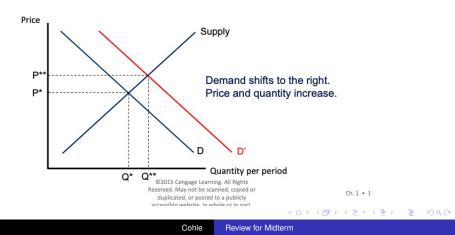
- Information set
- Pure strategy
- Mixed strategy

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A Change in Demand

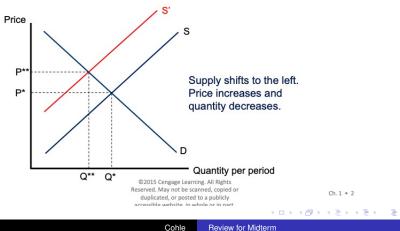
What happens if demand increases?



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A Change in Supply

What happens if supply decreases?

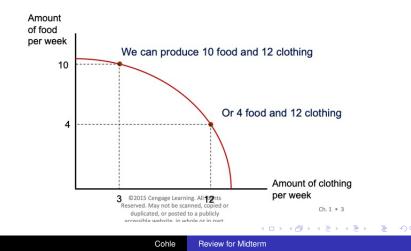


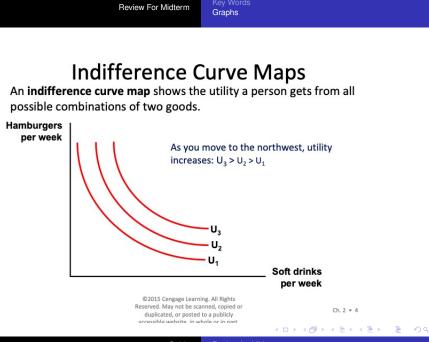
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The PPF

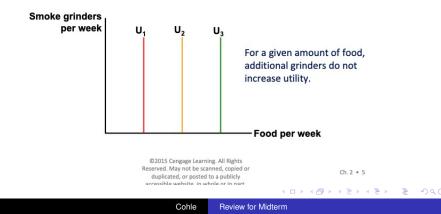
A PPF shows the possible combination of two goods an economy can produce with a fixed amount of resources.





Four Particular Preferences

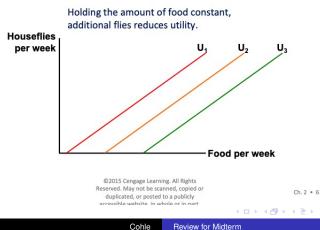
- A useless good.
 - More of a useless good neither increases nor decreases utility.

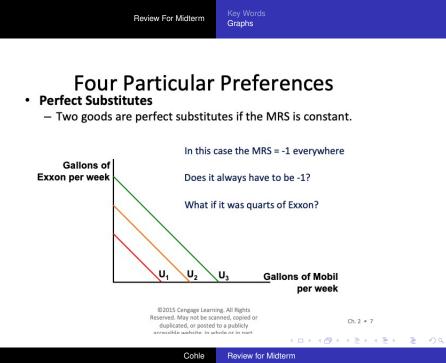




Four Particular Preferences • An economic bad.

- More of an economic bad decreases your utility.

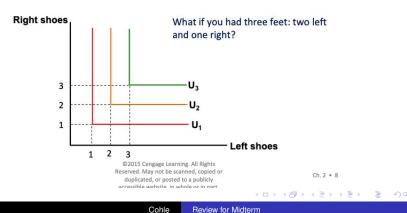




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Four Particular Preferences • Perfect Complements:

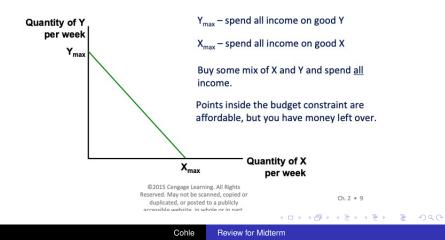
 Goods are perfect complements if they are consumed together in fixed proportions.



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Utility Maximization: A Graphical View

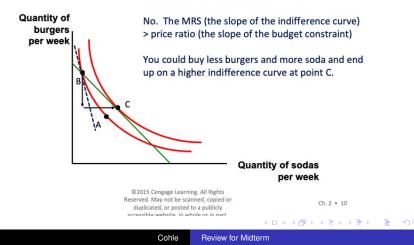
 Start by showing the budget constraint: this shows the limit that income places on the combinations of goods that can be bought.



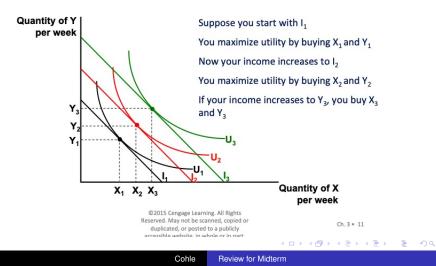
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Utility Maximization: A Graphical View

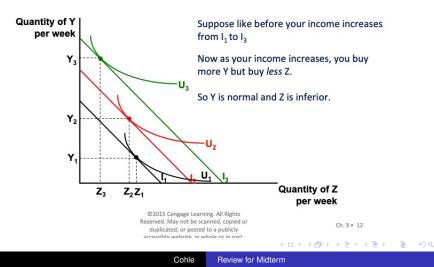
Are you maximizing utility at point B?

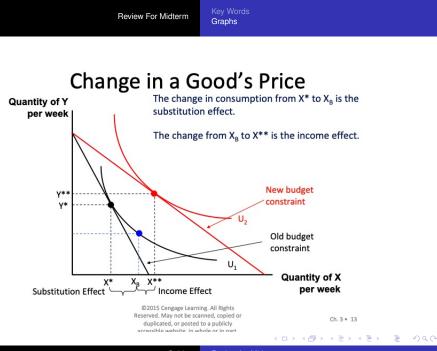


Changes in Income: A Normal Good



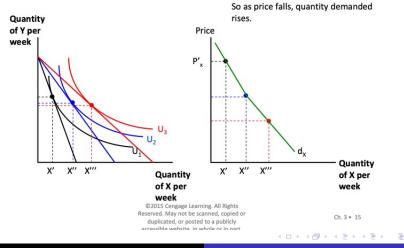
Changes in Income: An Inferior Good





Review For Midterm Graphs Substitution and Income Effects for Inferior Goods To show the substitution effect: move the **new** Quantity of Y budget constraint back so that it is tangent to the per week original indifference curve. The substitution effect is from X* to X_B The income effect is from X_B to X** Y* U₁ Y** U₂ Quantity of X X_R X** X* per week ©2015 Cengage Learning, All Rights Reserved. May not be scanned, copied or Ch. 3 • 14 duplicated, or posted to a publicly accessible website in whole or in part э 三) -

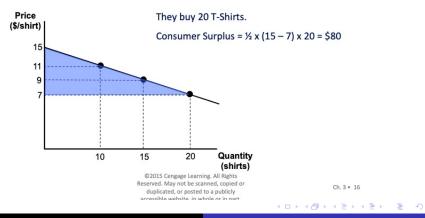
Deriving an Individual's Demand Curve



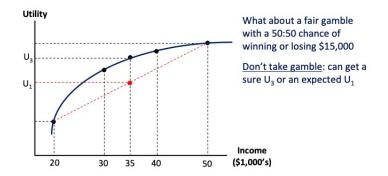


Consumer Surplus and the Demand Curve

 If P = \$7, how many T-shirts will the consumer buy? Show their consumer surplus. How much consumer surplus do they obtain?



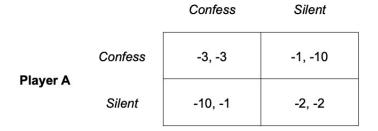
Diminishing Marginal Utility of Income



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Illustrating Games: Normal Form Player B



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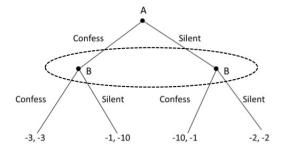
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Key Words Graphs

Illustrating Games: Extensive Form



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