CHAPTER 11 Consumer Preferences & Consumer Choice



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IBEC 202
Microeconomics

Mapping the Utility Function

A utility function =
 determines a consumer's
 total utility given his or her
 consumption bundle.

 Matsuda is a consumer who buys only two goods: chicken wings, measured in the number of orders, and fried shrimp.

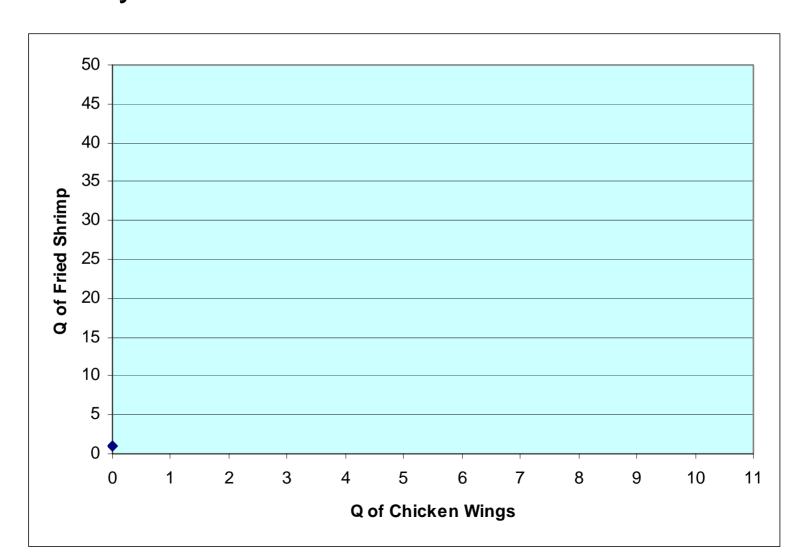




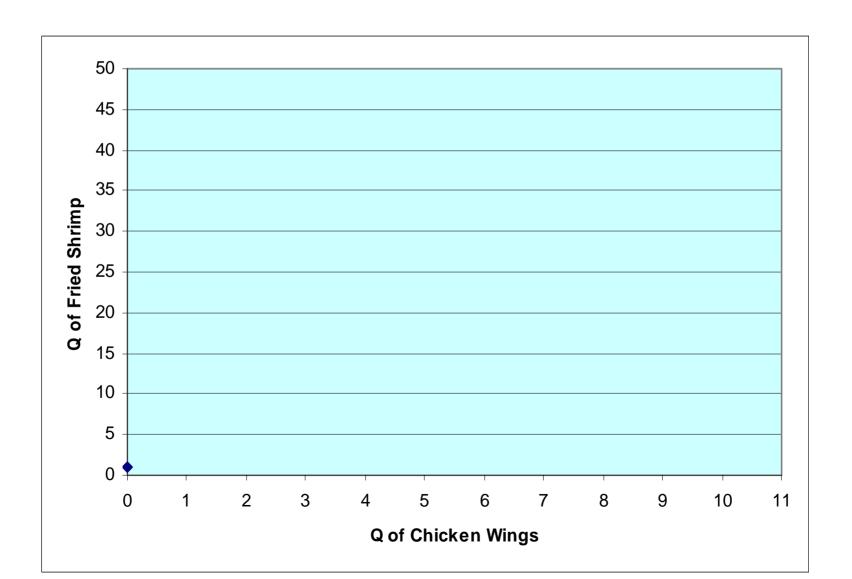


Indifference curve

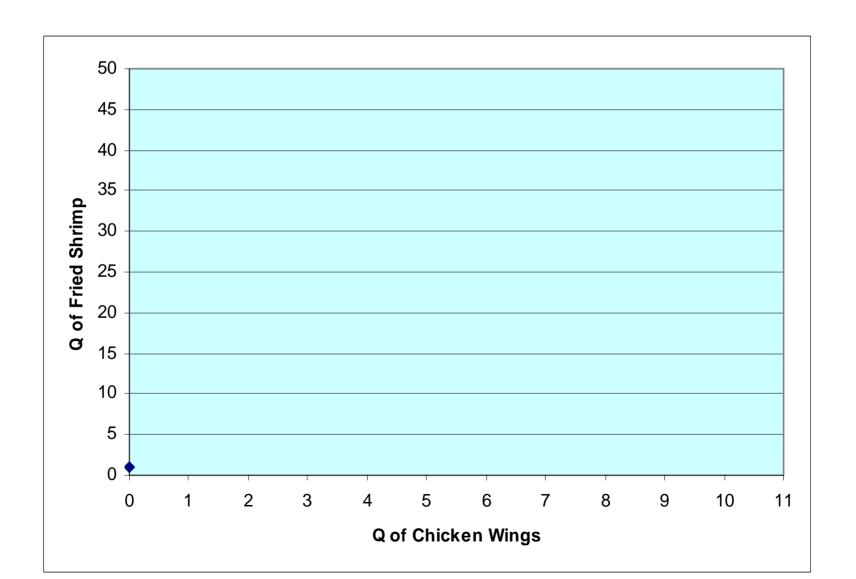
➤ An indifference curve = is a line that shows all the consumption bundles that yield the same amount of total utility for an individual.



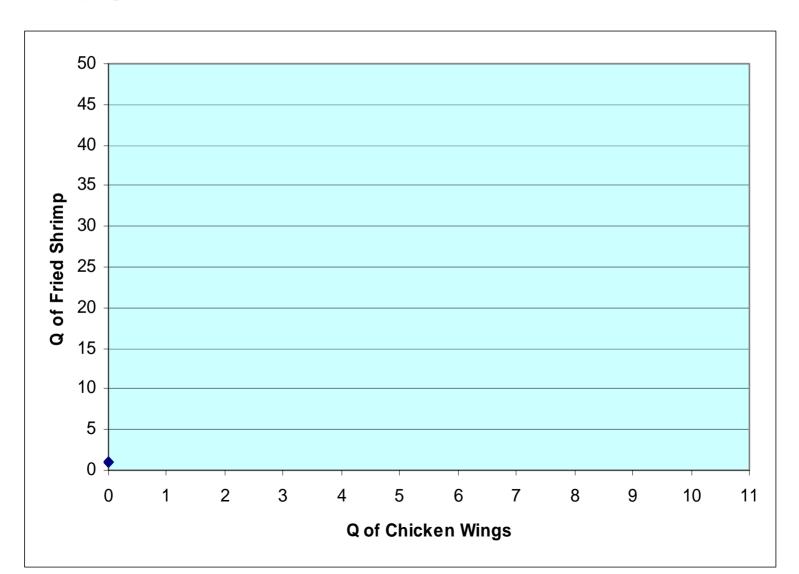
[1]



[2]



In addition, indifference curves for most goods, called ordinary goods, have two more properties:



 Goods that satisfy all four properties of indifference curve maps are called ordinary goods.

Indifference Curves and Consumer Choice

 Marginal rate of substitution = Your personal terms of the trade-off between two goods.

Marginal rate of substitution: The Changing Slope of an Indifference Curve



Diminishing marginal rate of substitution

The flattening of indifference curves as you slide down them to the right—which reflects the same logic as the principle of diminishing marginal utility—is known as the principle of diminishing marginal rate of substitution.



Optimal Consumption Bundle: General



Optimal Consumption Bundle: Example

Use the following numbers (same as the book):

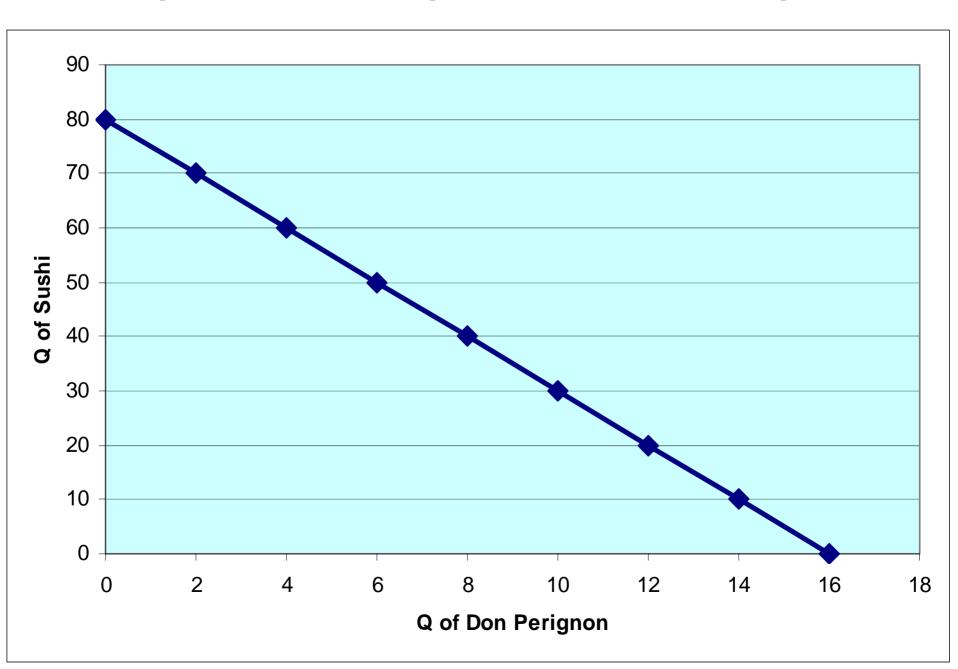
- Matsuda's income = \$2,400 per month.
- Price of Dom Perignon = \$150.
- Price of sushi = \$30.





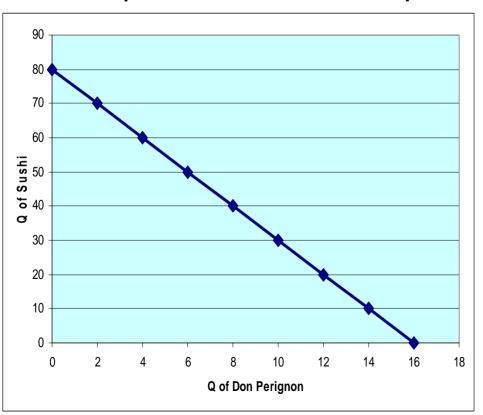


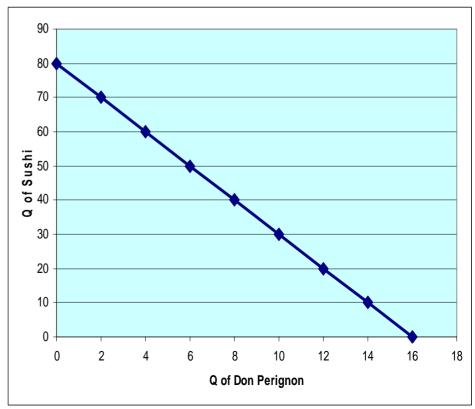
Optimal Consumption Bundle: Example



Preferences and Choices

- When we say that two consumers have different preferences, we mean that they have different utility functions.
- This in turn means that they will have indifference curve maps with different shapes.
- Both of them have an income of \$2,400 and face prices of \$30 per sushi and \$150 per Dom Perignon.

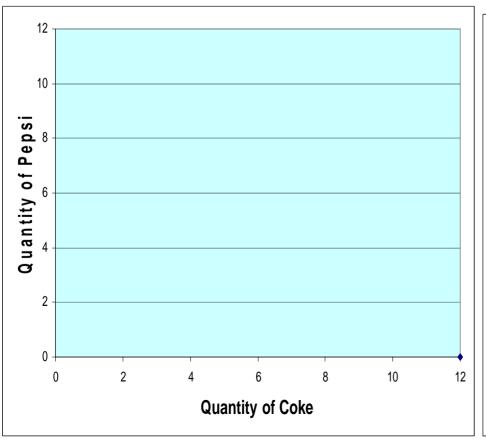


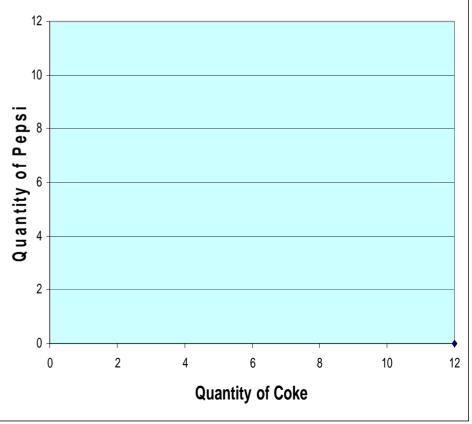


Using Indifference Curves: Substitutes and Complements

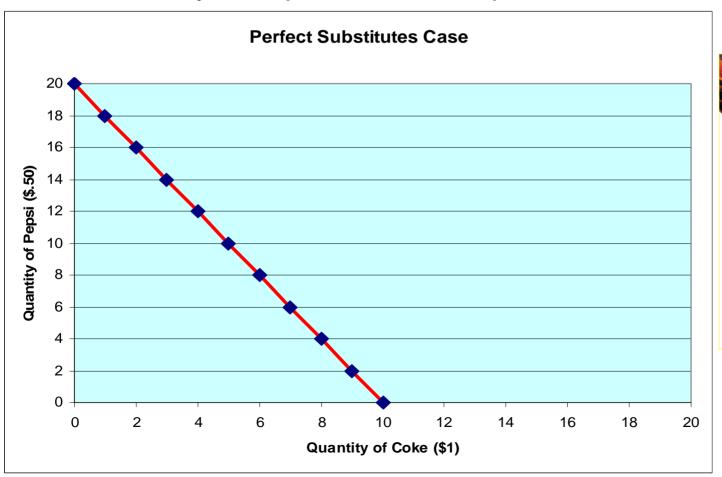
 What determines whether two goods are substitutes or complements?

Perfect Substitutes



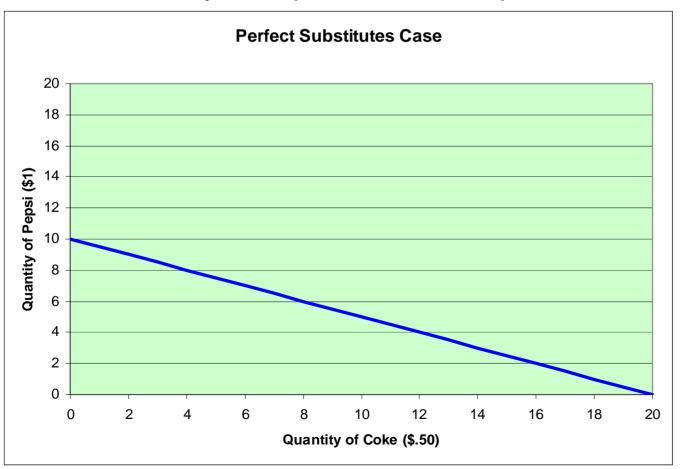


- Your income = \$10
- Price of Coke = \$1
- Price of Pepsi = \$.50
- Coke and Pepsi are perfect substitutes with MRS = 1.
- Where is your optimal consumption bundle?



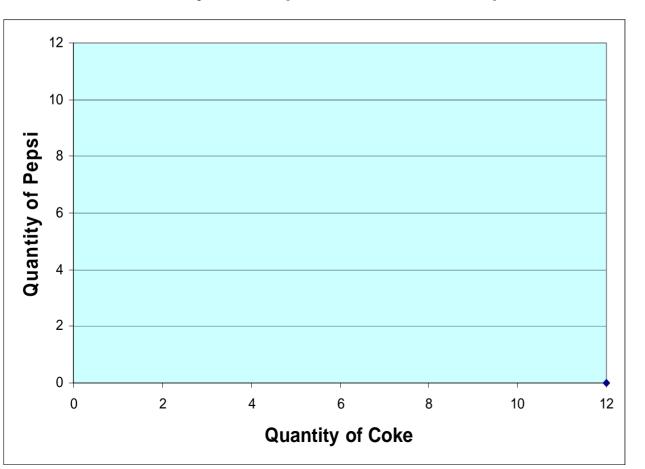


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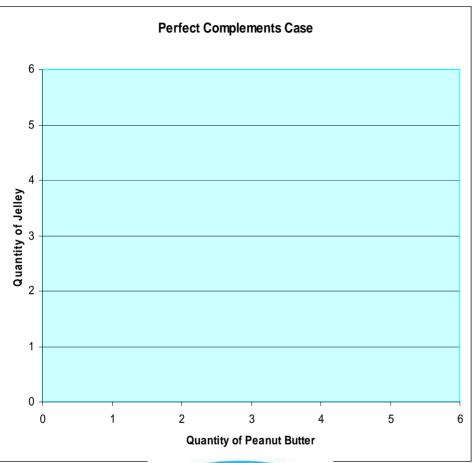


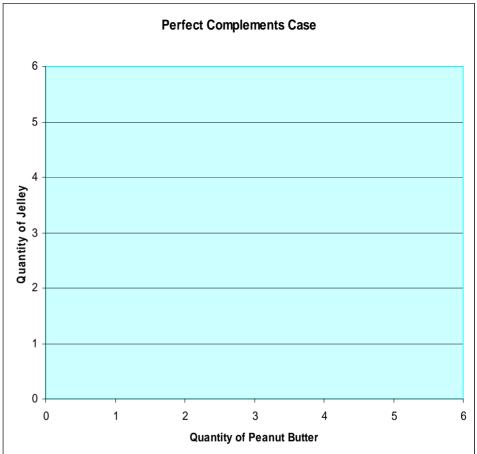


- Your income = \$10
- Price of Coke = \$1
- Price of Pepsi = \$1
- Coke and Pepsi are perfect substitutes with MRS = 1.
- Where is your optimal consumption bundle?



Perfect Complements

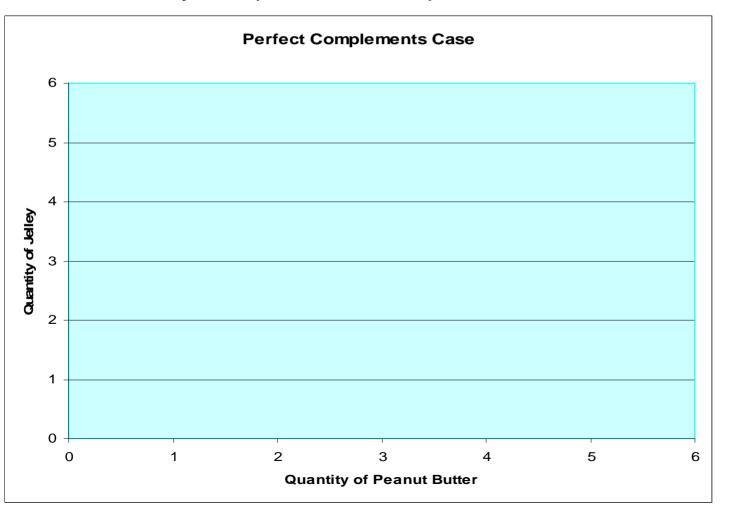








- Your income = \$12
- Price of Coke = \$3
- Price of Pepsi = \$3
- Peanut butter and jelly are perfect complements with 1-1 ratio.
- Where is your optimal consumption bundle?



Prices, Income, and Demand

 How would our consumption choice change if either the prices of goods or our income change?







Use the following numbers:

- Your income = \$2,400 per month.
- Price of Dom Perignon = \$150. Rises to
- Price of sushi = \$30.

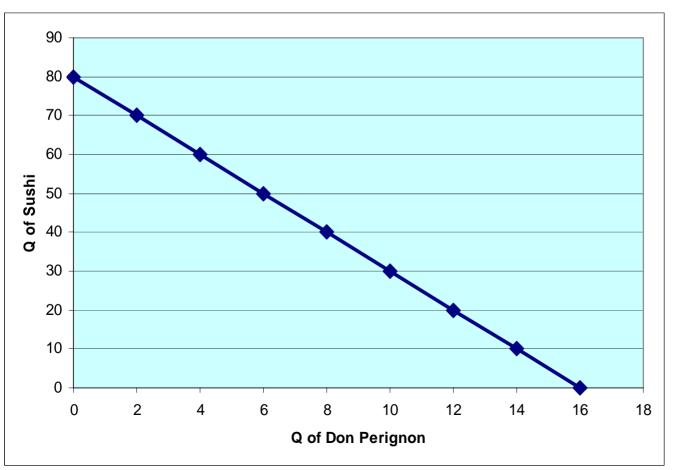




Income and Consumption: Normal Goods

Use the following numbers:

- Your income = \$2,400 per month. Decreases to
- Price of Dom Perignon = \$150.
- Price of sushi = \$30.





Income and Consumption: Inferior Goods

Use the following numbers:

- Your income = \$2,400 per month. Decreases to
- Price of Dom Perignon = \$150.
- Price of ramen noodles = \$30.

