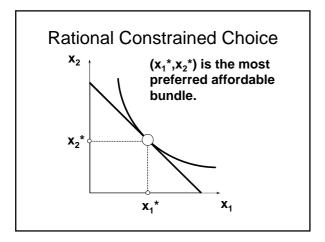
Chapter Five

Choice

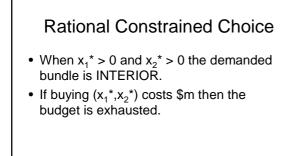
Economic Rationality

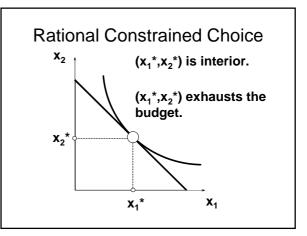
- The principal behavioral postulate is that a decisionmaker chooses its most preferred alternative from those available to it.
- The available choices constitute the choice set.
- How is the most preferred bundle in the choice set located?

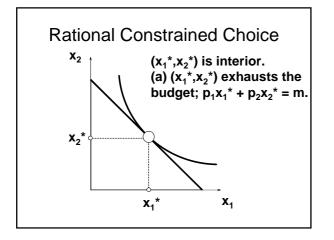


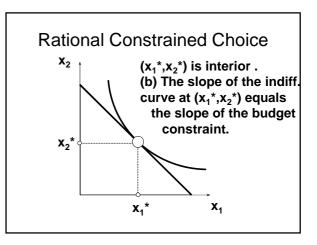
Rational Constrained Choice

- The most preferred affordable bundle is called the consumer's ORDINARY DEMAND at the given prices and budget.
- Ordinary demands will be denoted by $x_1^*(p_1,p_2,m)$ and $x_2^*(p_1,p_2,m)$.







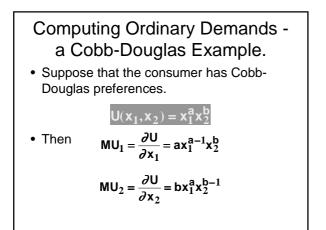


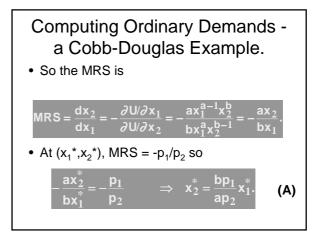
Rational Constrained Choice

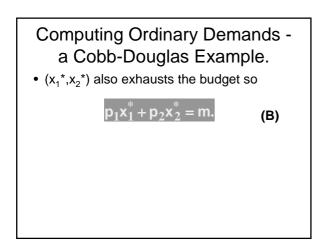
- (x₁*,x₂*) satisfies two conditions:
- (a) the budget is exhausted; $p_1x_1^* + p_2x_2^* = m$
- (b) the slope of the budget constraint, p₁/p₂, and the slope of the indifference curve containing (x₁*,x₂*) are equal at (x₁*,x₂*).

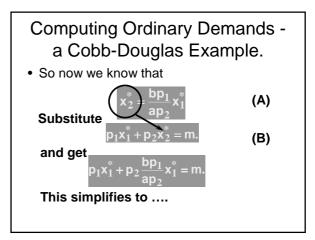
Computing Ordinary Demands

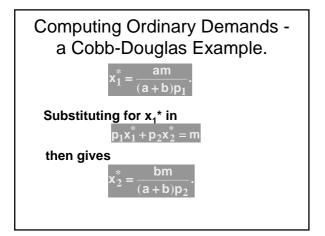
• How can this information be used to locate (x_1^*, x_2^*) for given p₁, p₂ and m?

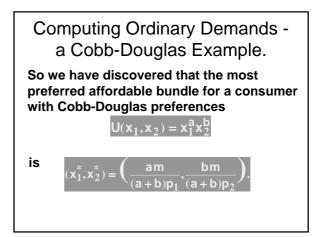


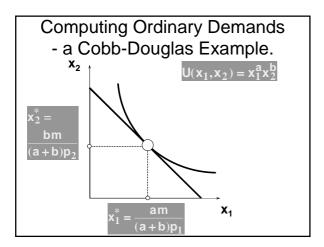


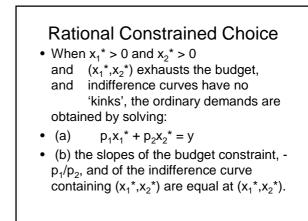






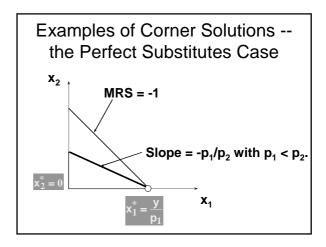


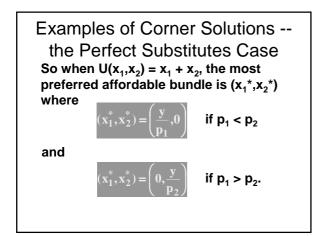


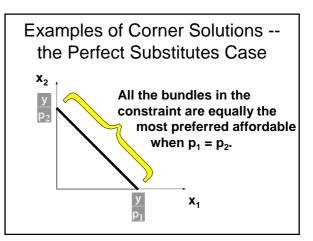


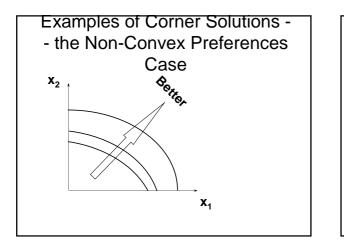
Rational Constrained Choice

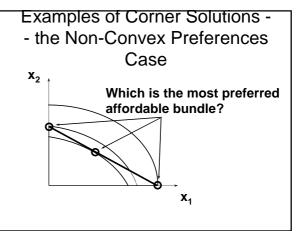
- But what if $x_1^* = 0$?
- Or if x₂* = 0?
- If either $x_1^* = 0$ or $x_2^* = 0$ then the ordinary demand (x_1^*, x_2^*) is at a corner solution to the problem of maximizing utility subject to a budget constraint.

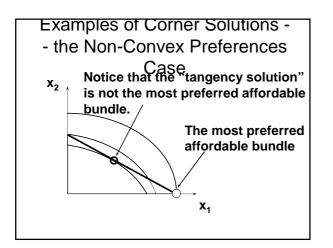


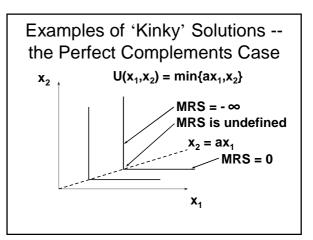


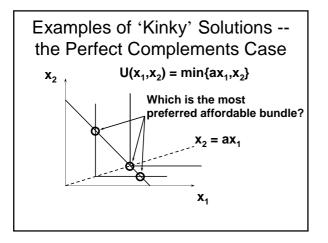


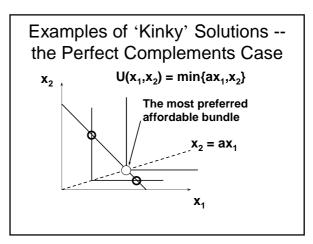


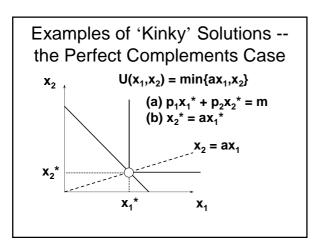


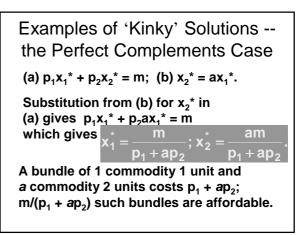


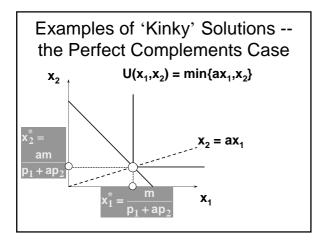












Estimating Utility Function

- What kind of preferences generated the observed behavior?
- Steps
- Data of consumer's choices (Table 5.1)
- Compute the share of income
- If relatively constant, Cobb-Douglas
- Using this function to evaluate the impact of policy.

	Year	p_1	p_2	т	<i>x</i> ₁	<i>x</i> ₂	<i>s</i> ₁	<i>s</i> ₂	Utility	
	1	1	1	100	25	75	.25	.75	57.0	
	2	1 2	2 1	100	24 13	38 74	.24	.76 .74	33.9 47.9	
	4	1	2	200	48	74	.20	.74	67.8	
	5	2	1	200	25	150	.25	.75	95.8	
	6	1	4	400	100	75	.25	.75	80.6	
	7	4	1	400	24	304	.24	.76	161.1	
TABLE 5.1 Some	BLE 5.1 Some data describing consumption behavior									

