Chapter Eight

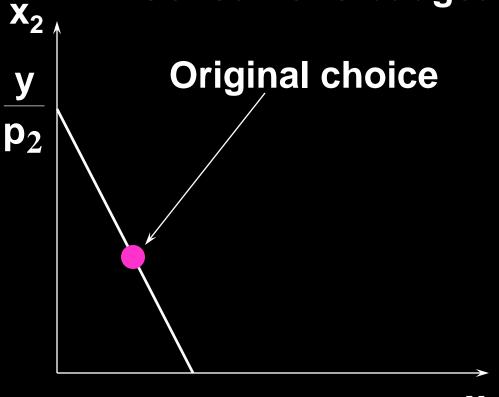
Slutsky Equation

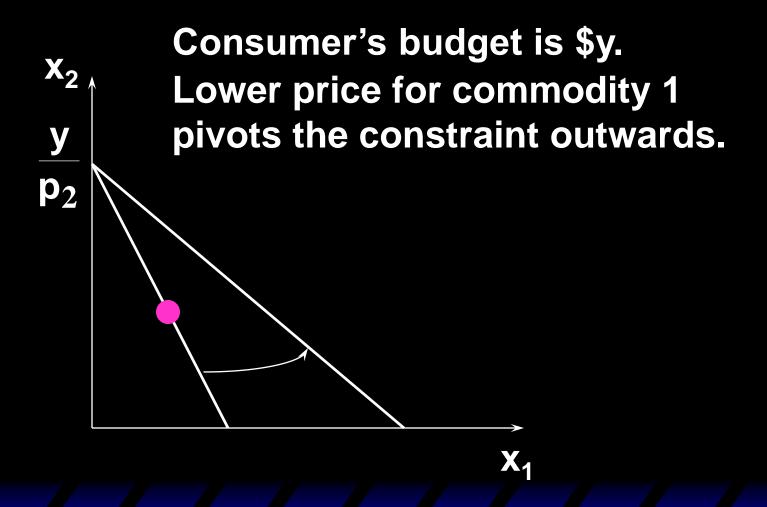
What happens when a commodity's price decreases?

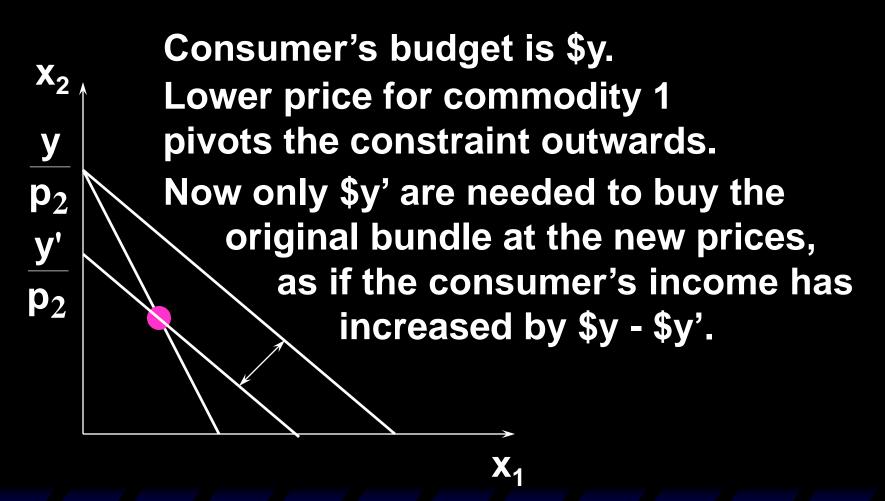
-Substitution effect: the commodity is relatively cheaper, so consumers substitute it for now relatively more expensive other commodities.

-Income effect: the consumer's budget of \$y can purchase more than before, as if the consumer's income rose, with consequent income effects on quantities demanded.

Consumer's budget is \$y.





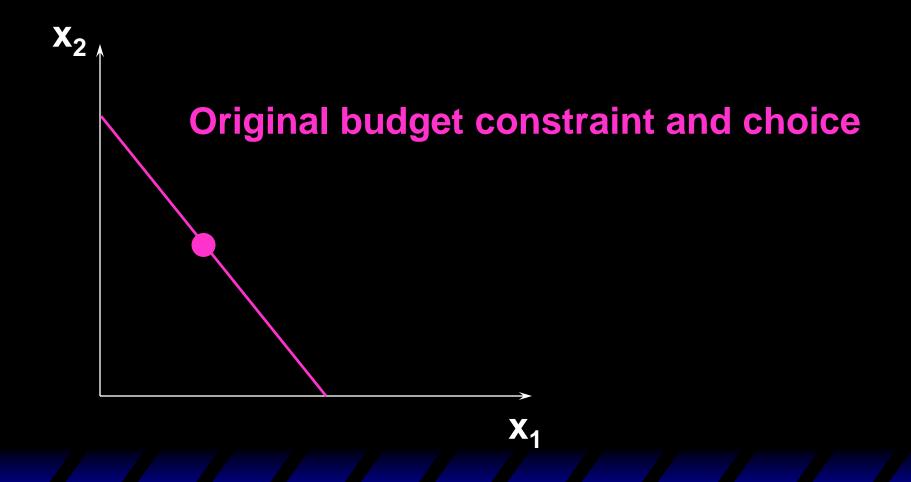


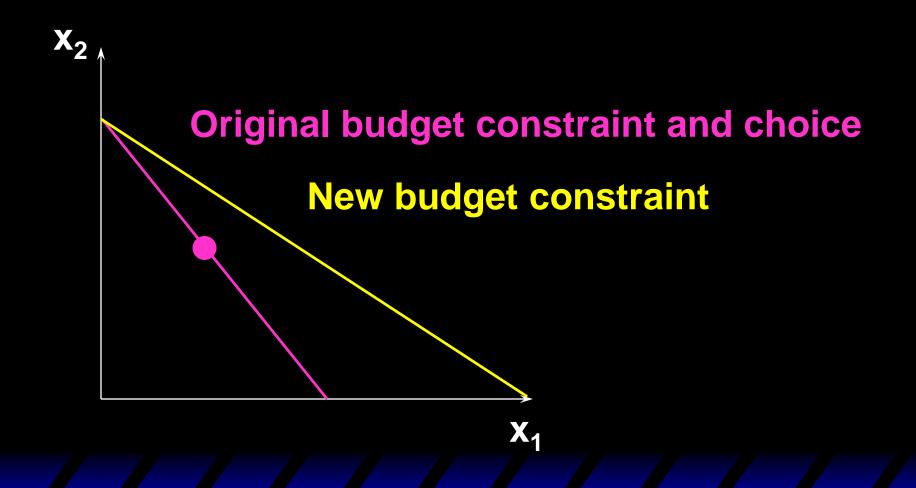
Changes to quantities demanded due to this 'extra' income are the income effect of the price change.

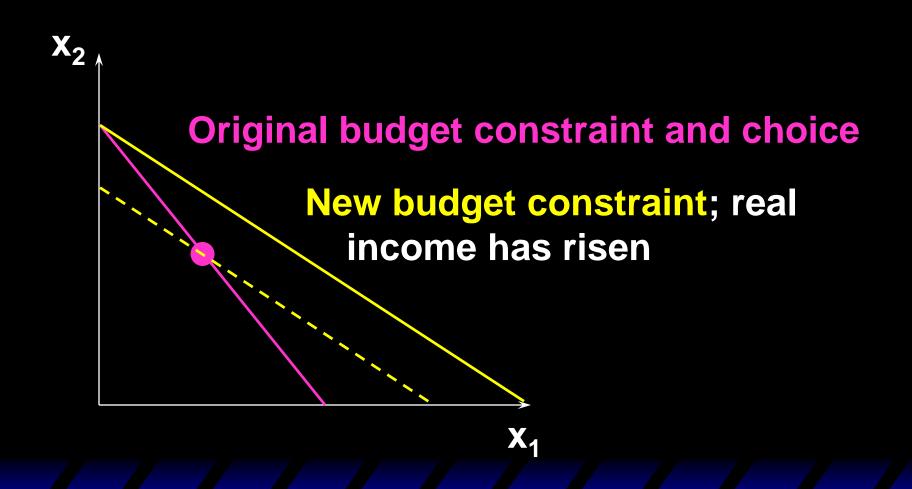
Slutsky discovered that changes to demand from a price change are always the sum of a pure substitution effect and an income effect.

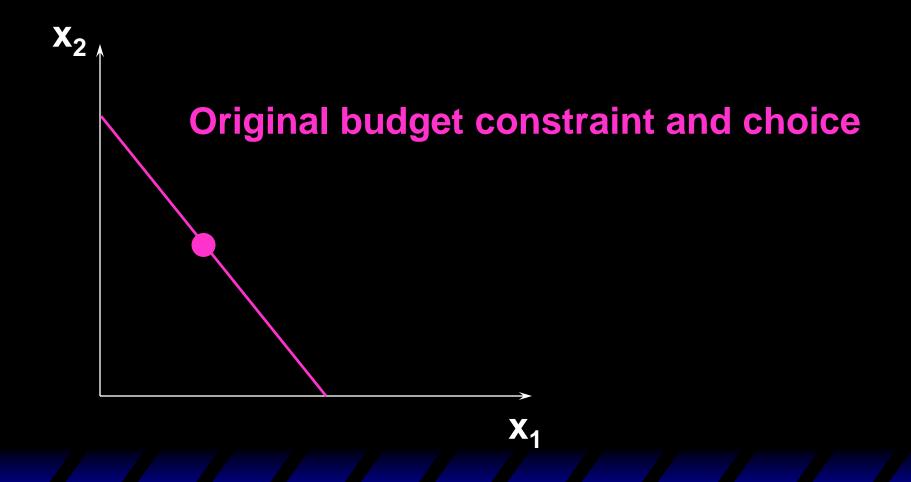
Slutsky asserted that if, at the new prices,

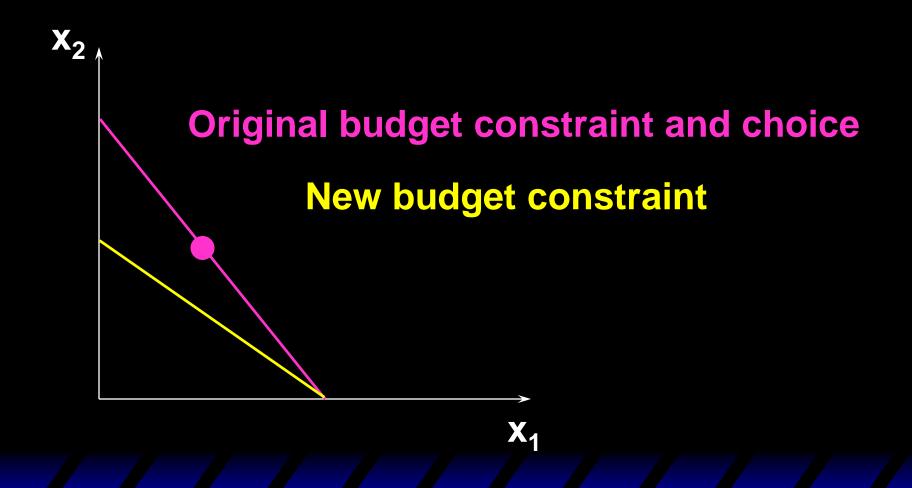
- -less income is needed to buy the original bundle then "real income" is increased
- -more income is needed to buy the original bundle then "real income" is decreased

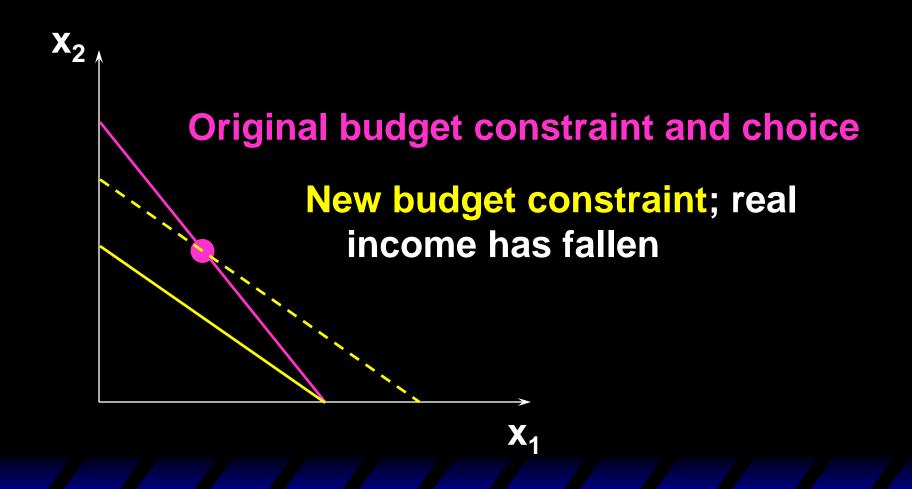




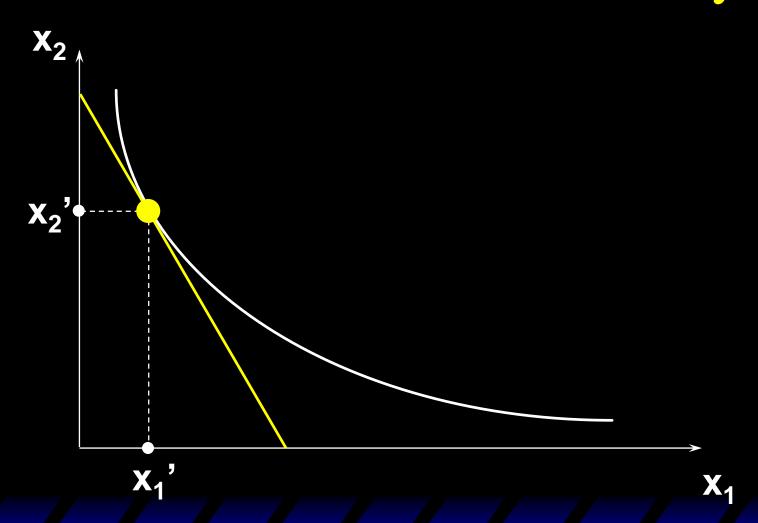


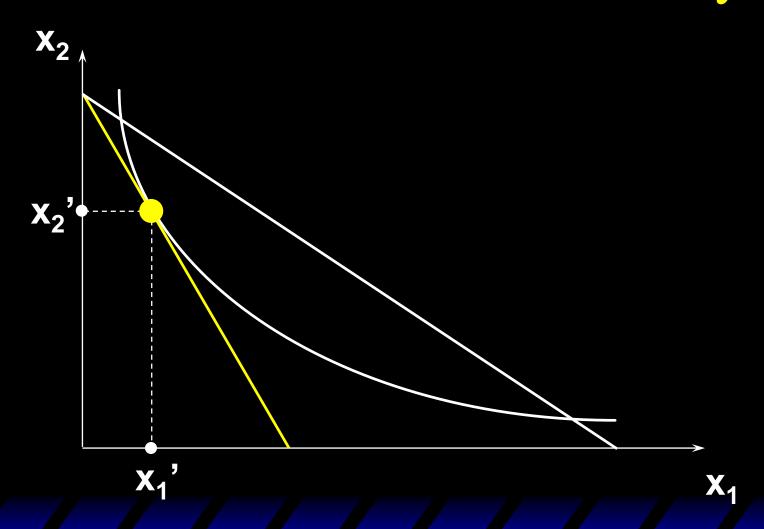


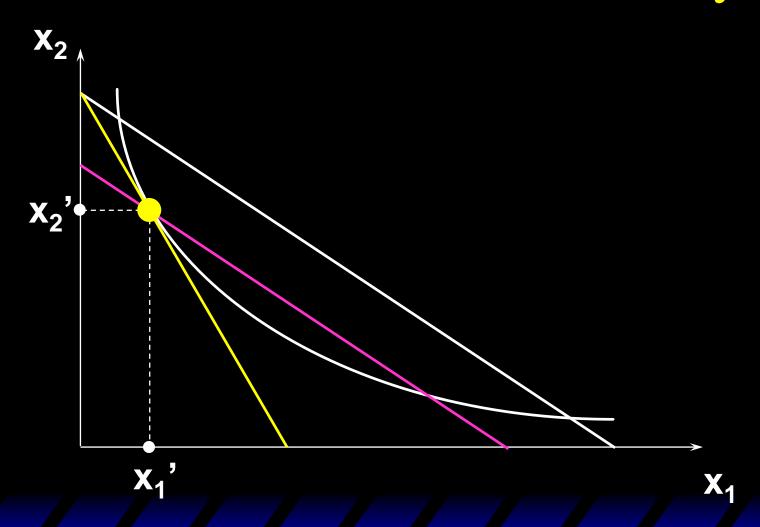


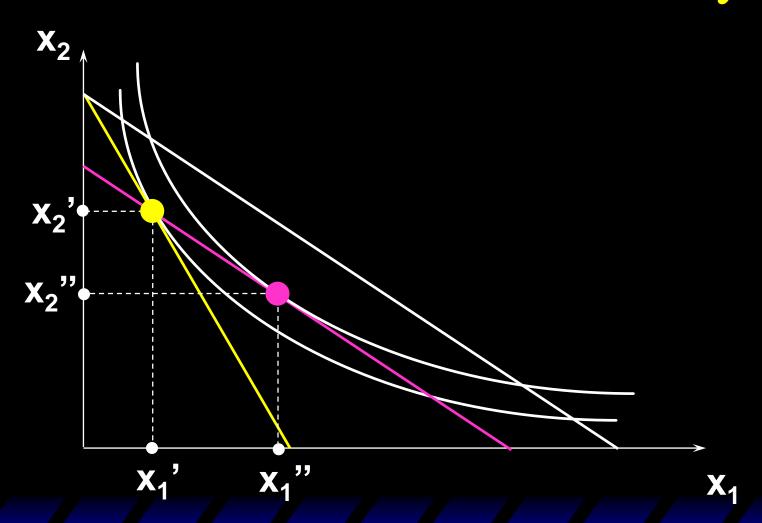


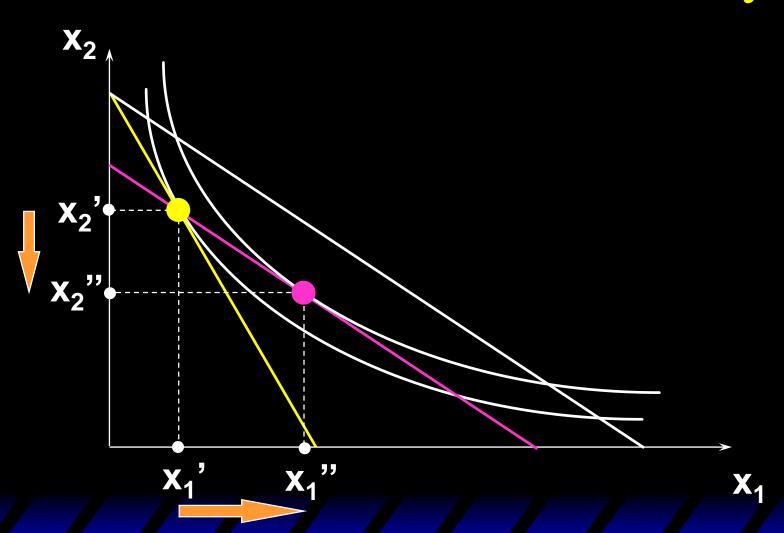
Slutsky isolated the change in demand due only to the change in relative prices by asking "What is the change in demand when the consumer's income is adjusted so that, at the new prices, she can only just buy the original bundle?"

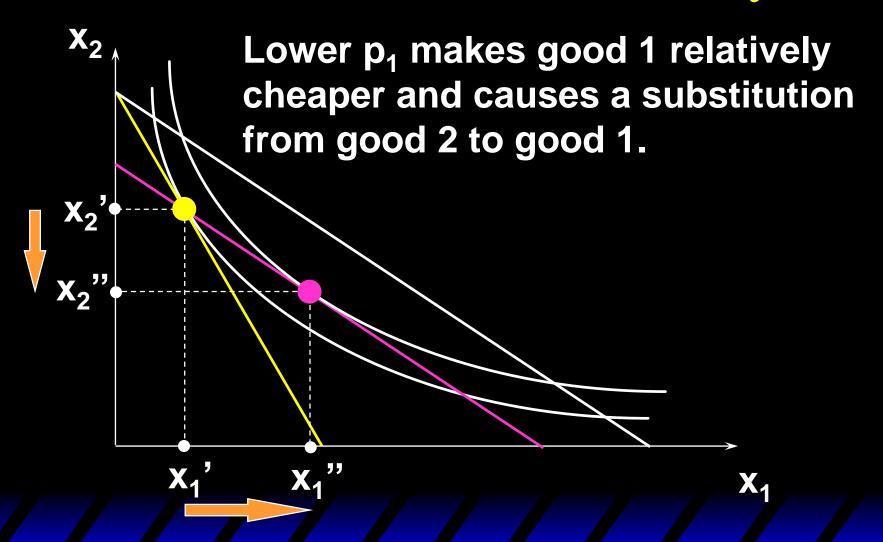


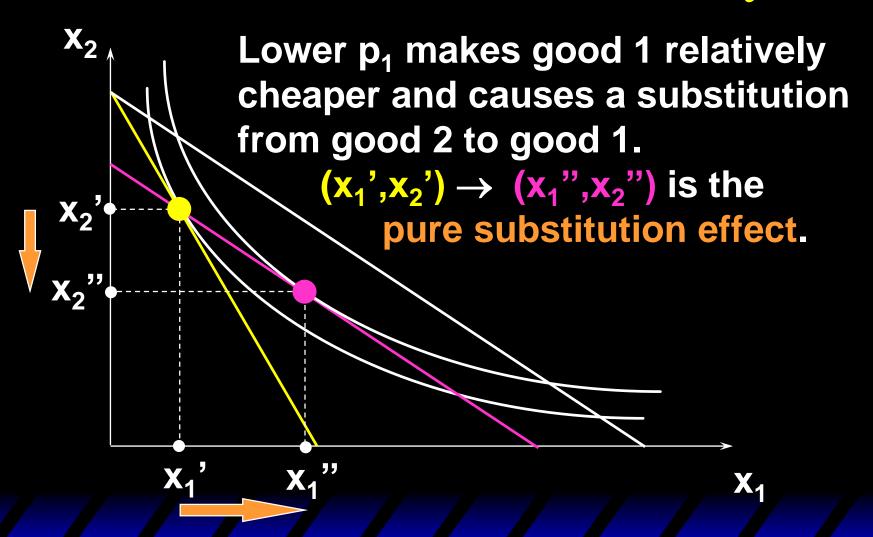




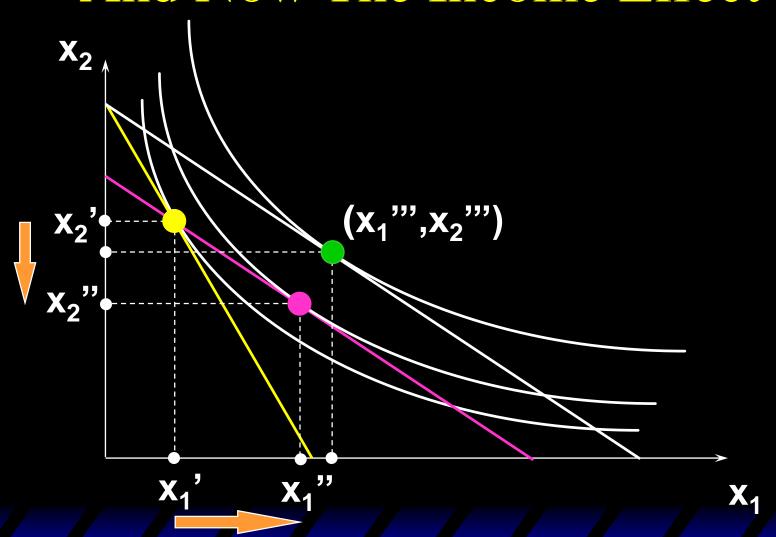




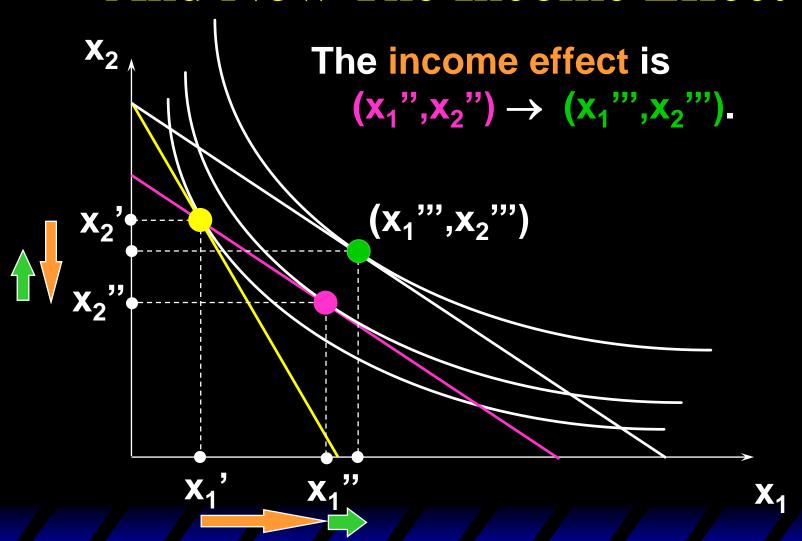




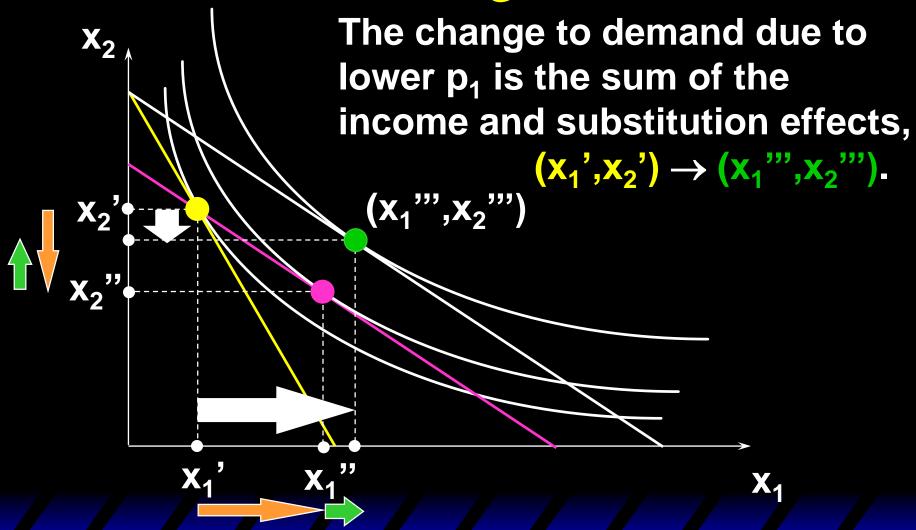
And Now The Income Effect



And Now The Income Effect

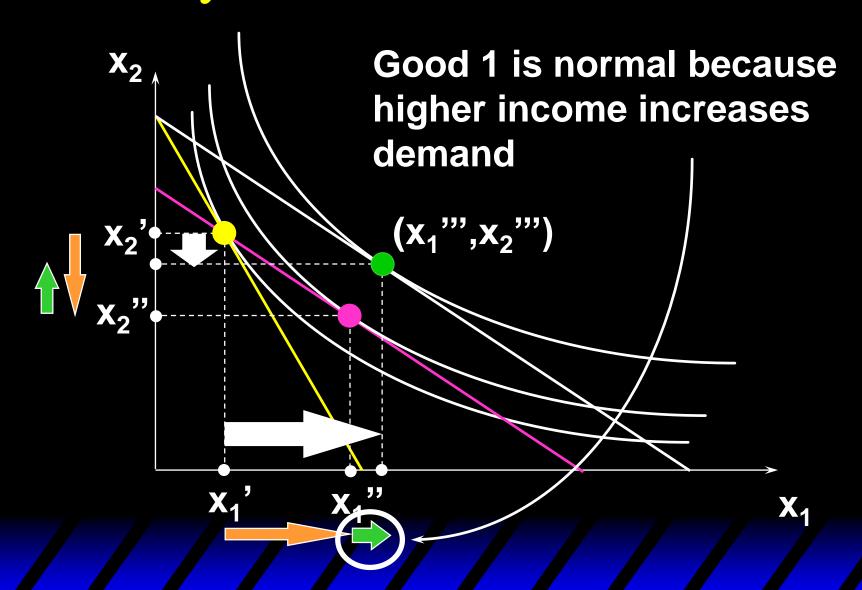


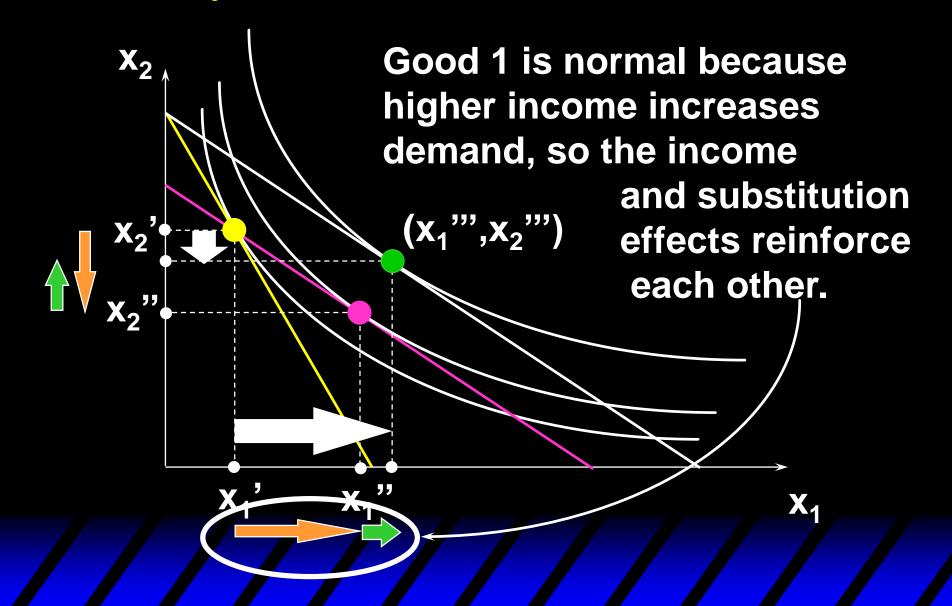
The Overall Change in Demand



Most goods are normal (i.e. demand increases with income).

The substitution and income effects reinforce each other when a normal good's own price changes.



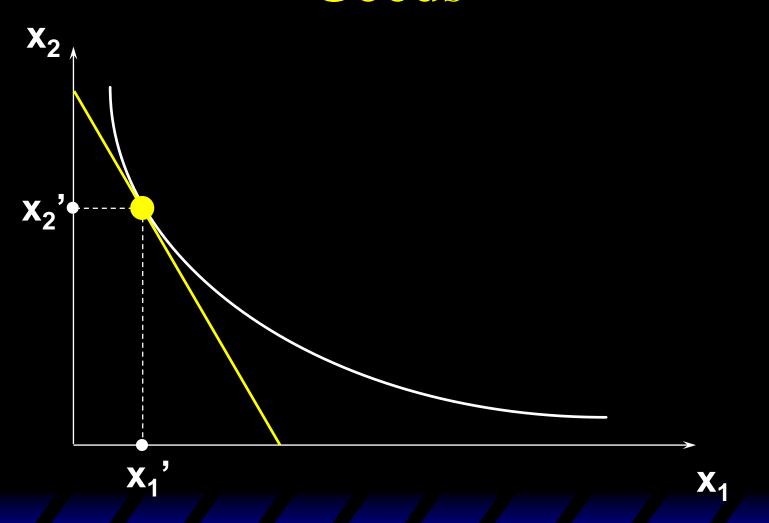


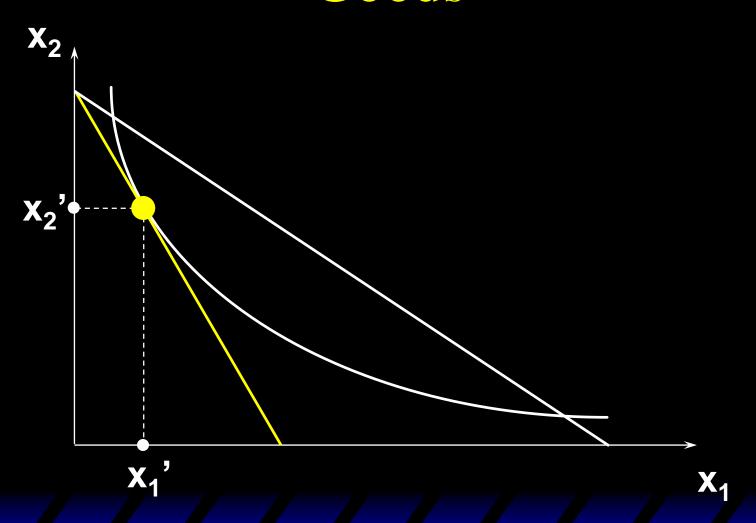
Since both the substitution and income effects increase demand when own-price falls, a normal good's ordinary demand curve slopes down.

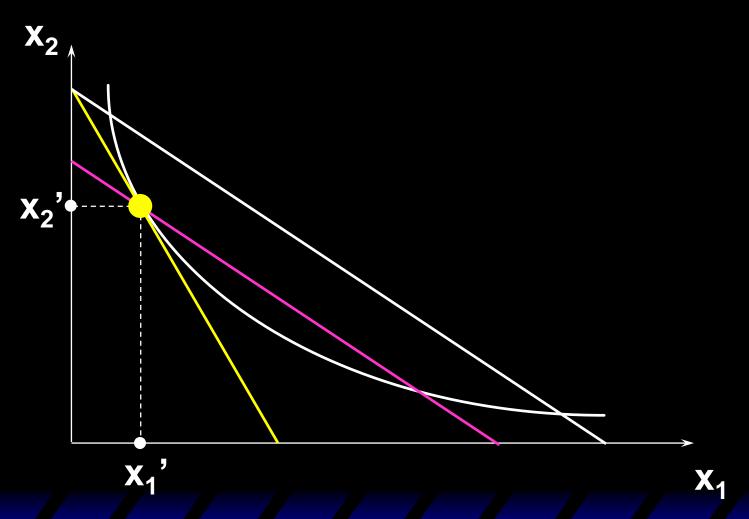
The Law of Downward-Sloping Demand therefore always applies to normal goods.

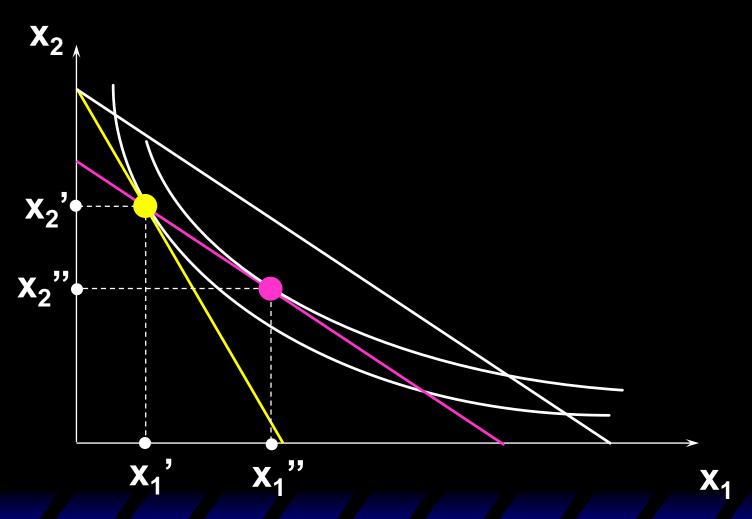
Some goods are income-inferior (i.e. demand is reduced by higher income).

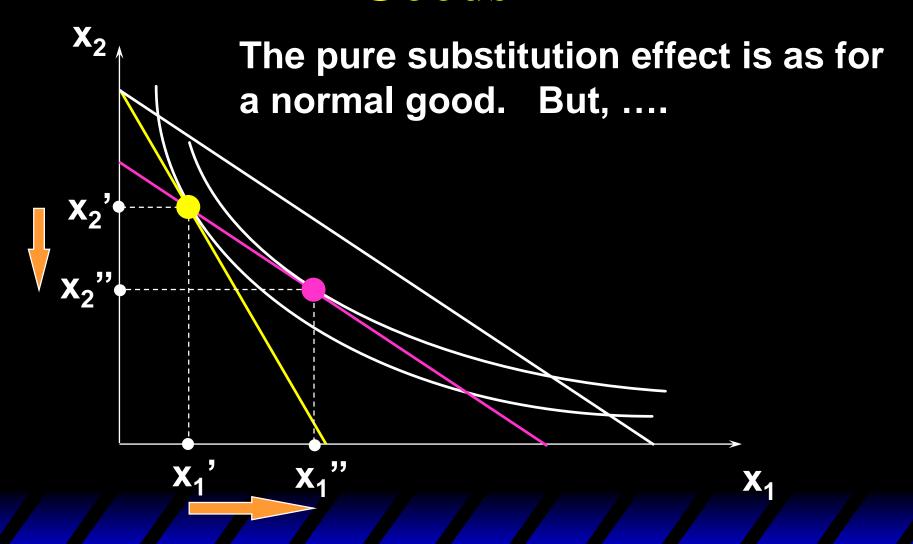
The substitution and income effects oppose each other when an income-inferior good's own price changes.



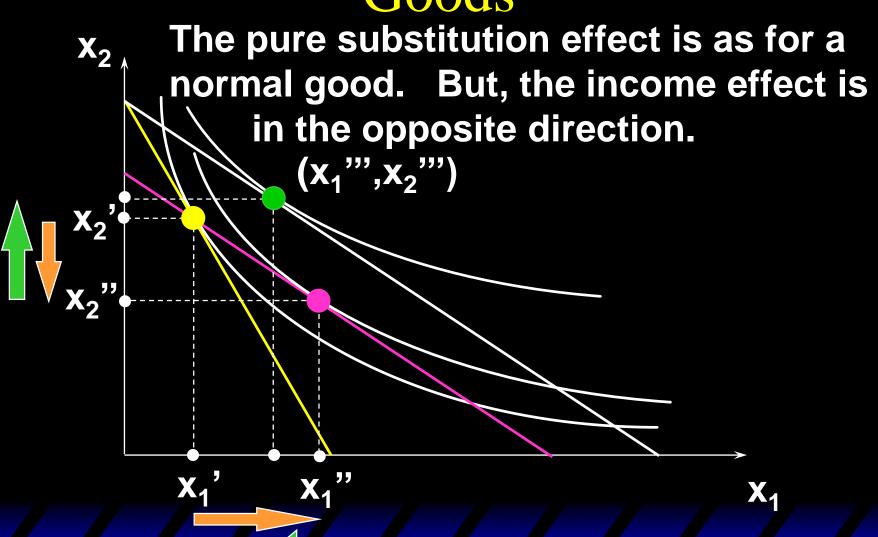




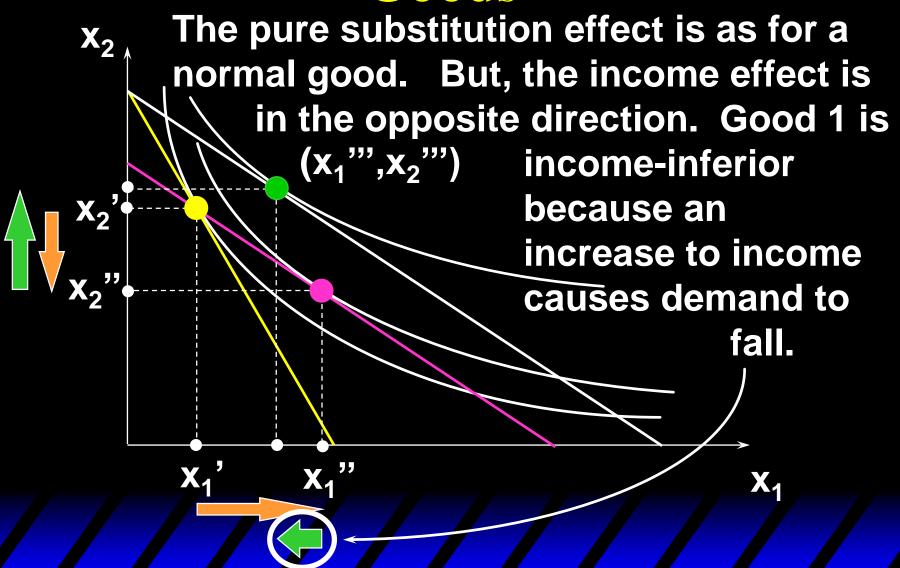


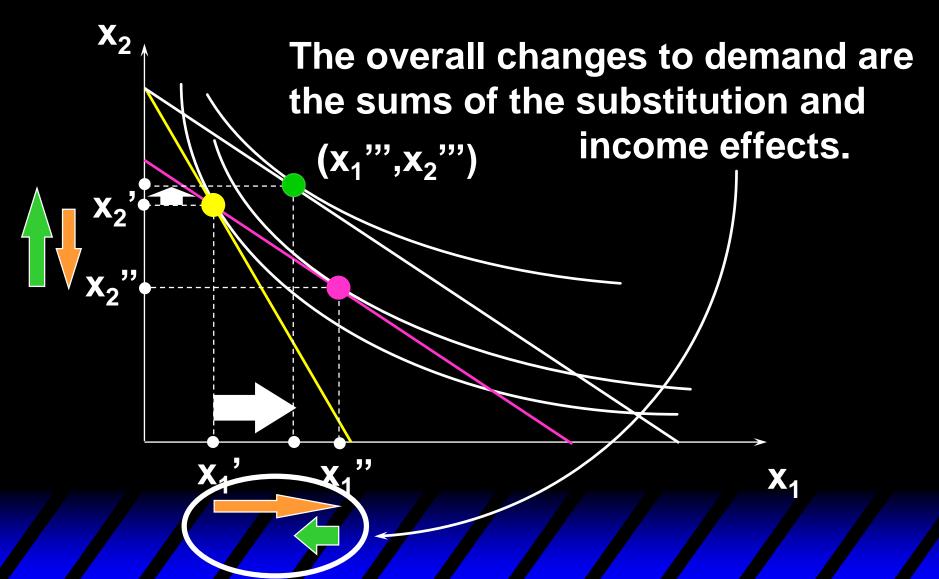








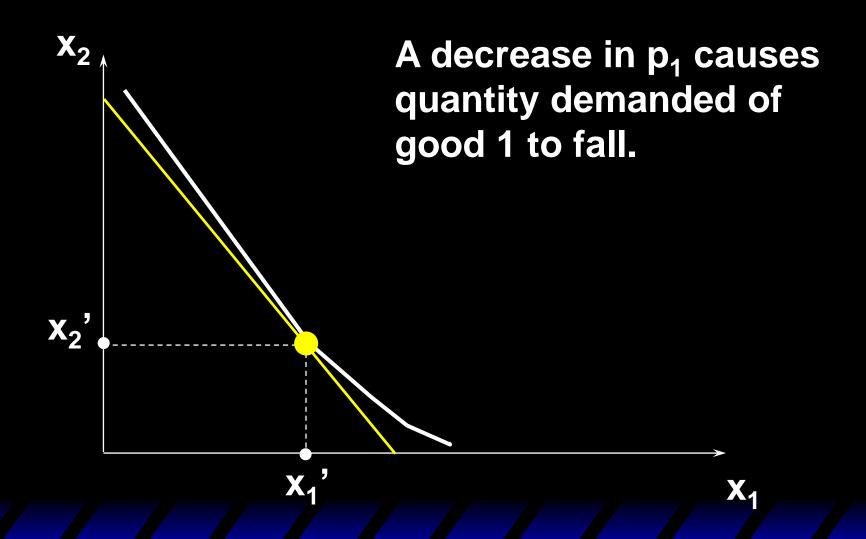


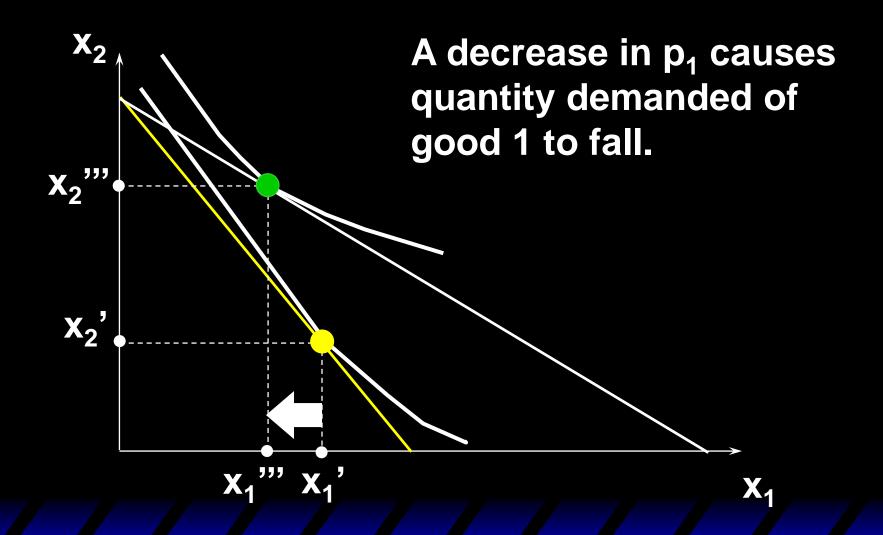


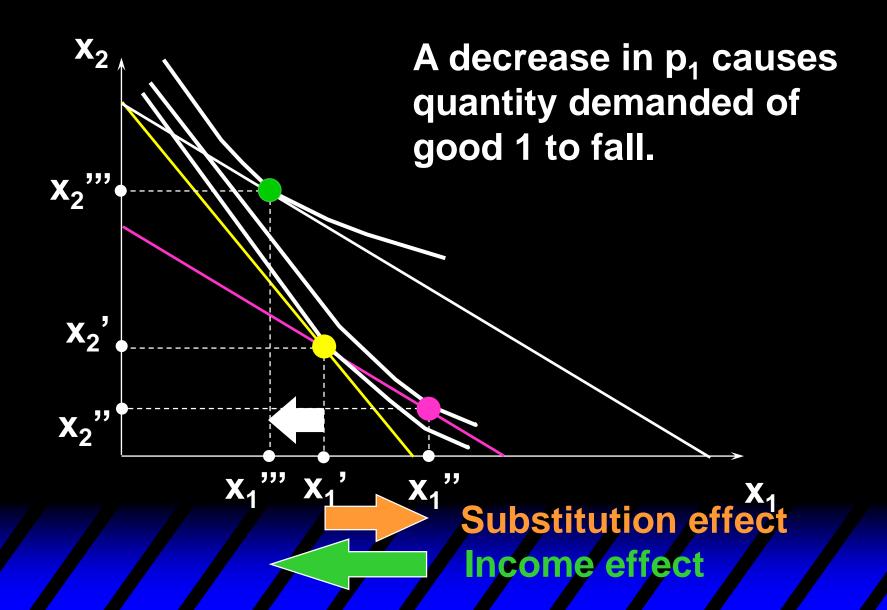
Giffen Goods

In rare cases of extreme incomeinferiority, the income effect may be larger in size than the substitution effect, causing quantity demanded to fall as own-price rises.

Such goods are Giffen goods.







Slutsky's decomposition of the effect of a price change into a pure substitution effect and an income effect thus explains why the Law of Downward-Sloping Demand is violated for extremely incomeinferior goods.

Hicksian substitution effect

