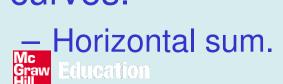
Lecture # 4 Economics of European Integration

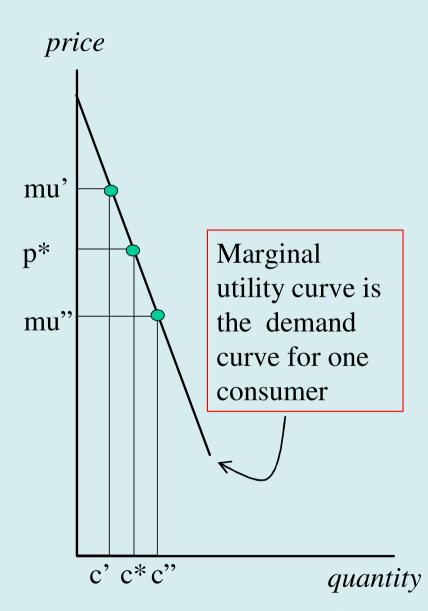
Fall Semester 2008

Gerald Willmann

Preliminaries I

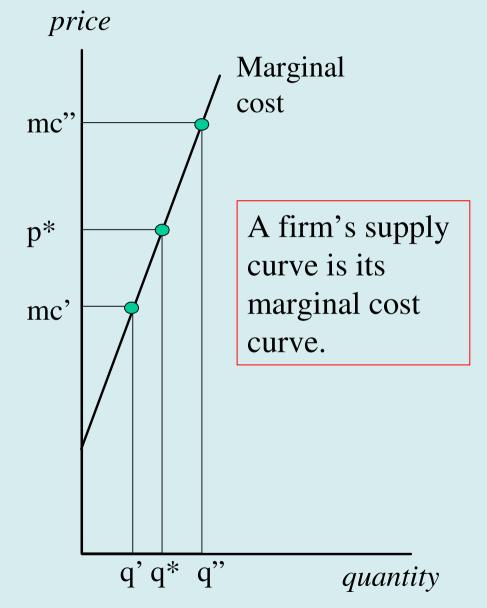
- Demand curve shows how much consumers would buy of a particular good at any particular price.
- It is based on optimisation exercise:
 - Would one more be worth price?
- Market demand is aggregated over all consumers' demand curves.





Preliminaries I

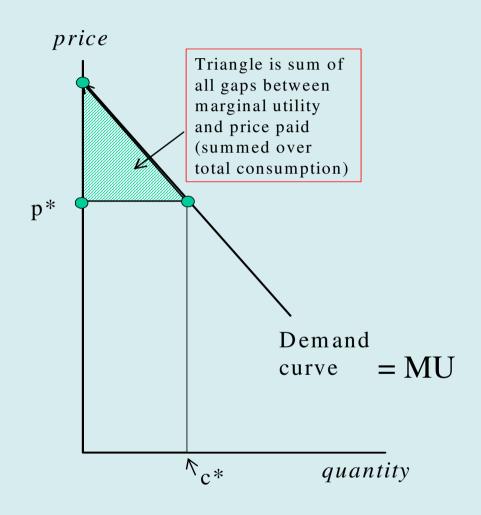
- Supply curve shows how much firms would offer to the market at a given price.
- Based on optimisation:
 - Would selling one more unit at price increase profit?
- Market supply is aggregated over all firms.
 - Horizontal sum.





Welfare analysis: consumer surplus

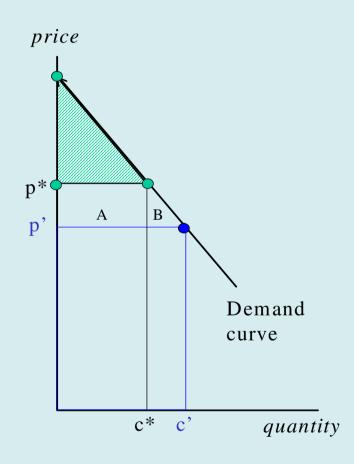
- Since demand curve based on marginal utility, it can be used to show how consumers' well-being (welfare) is affected by changes in the price.
- Gap between marginal utility of a unit and price paid shows 'surplus' from being able to buy c* at p*.





Welfare analysis: consumer surplus

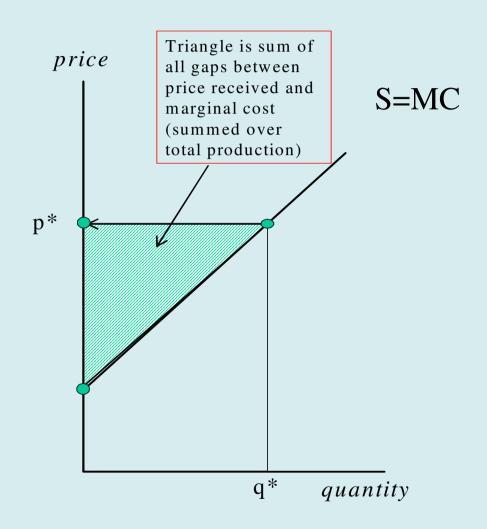
- If the price falls:
 - Consumers obviously better off.
 - Consumer surplus change quantifies this intuition.
- Consumer surplus rise, 2 parts:
 - Pay less for units consumed at old price; measure of this = area A.
 - A = Price drop times old consumption.
 - Gain surplus on the new units consumed (those from c* to c'); measure of this = area B.
 - B = sum of all new gaps between marginal utility and price





Welfare analysis: producer surplus

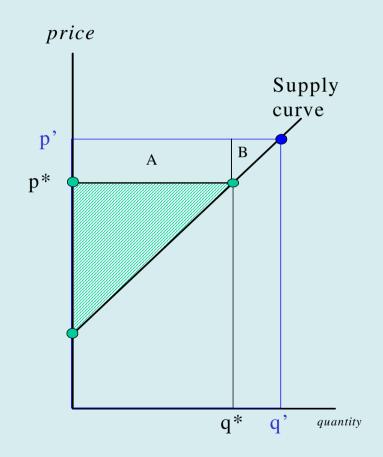
- Since supply curve based on marginal cost, it can be used to show how producers' wellbeing (welfare) is affected by changes in the price.
- Gap between marginal cost of a unit and price received shows 'surplus' from being able to sell q* at p*.



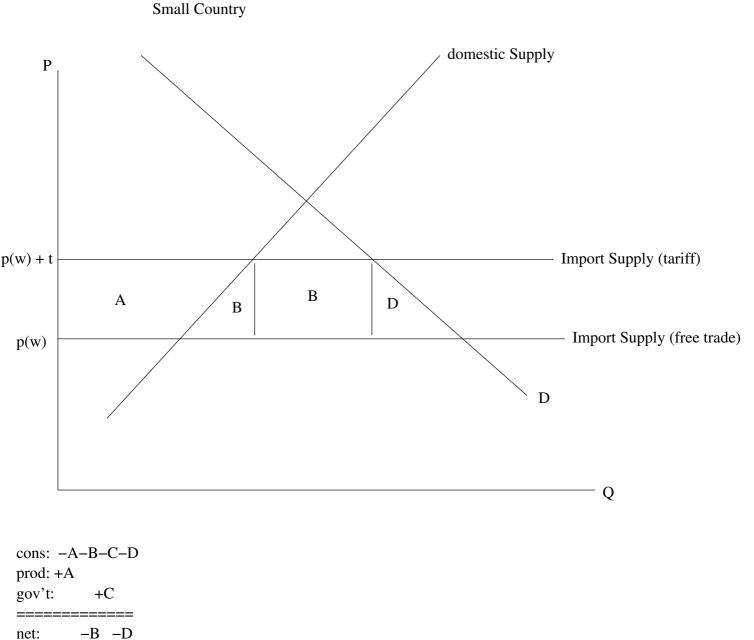


Welfare analysis: producer surplus

- If the price rises:
 - producers obviously better off.
 - Producer surplus change quantifies this intuition.
- producer surplus rise, 2 parts:
 - Get more for units sold at old price; measure of this = area A.
 - A = Price rise times old production.
 - Gain surplus on the new units sold (those from q* to q').
 - measure of this = area B.
 - B= sum of all new gaps between marginal cost and price.





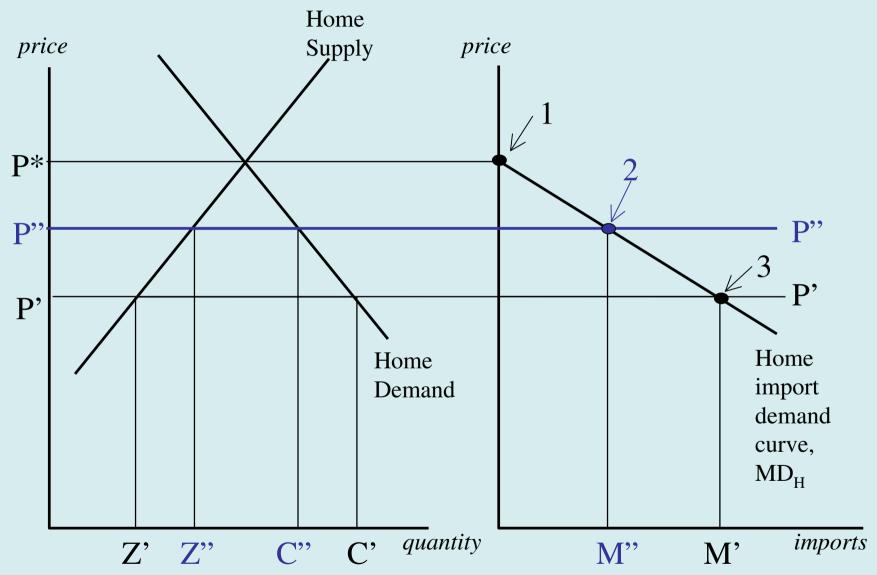


Preliminaries II

- Introduction to Open Economy Supply & Demand Analysis.
- Start with Import Demand Curve.
 - This tells us how much a nation would import for any given domestic price.
 - Presumes imports and domestic production are perfect substitutes.
 - Imports equal gap between domestic consumption and domestic production.

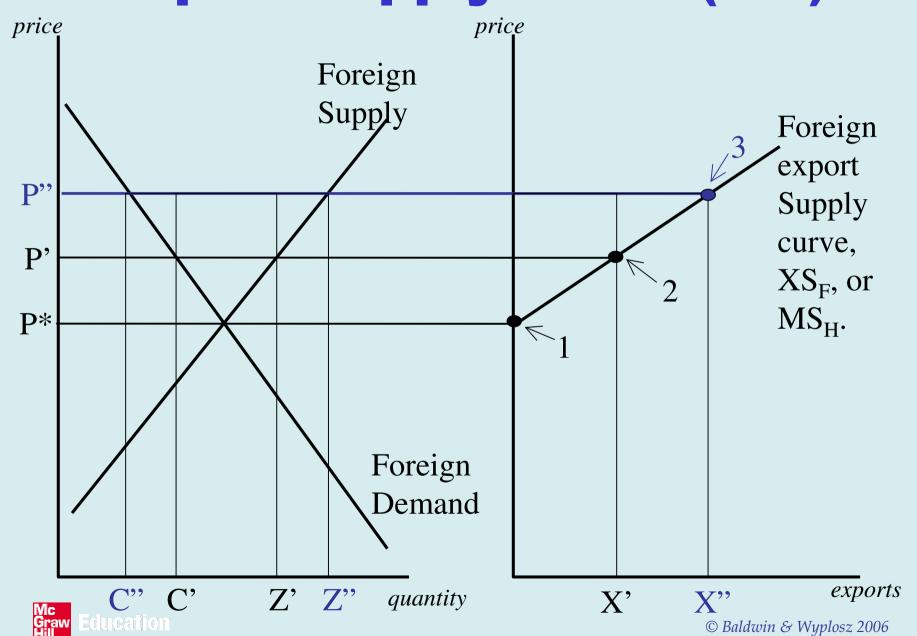


Import demand curve (MD)

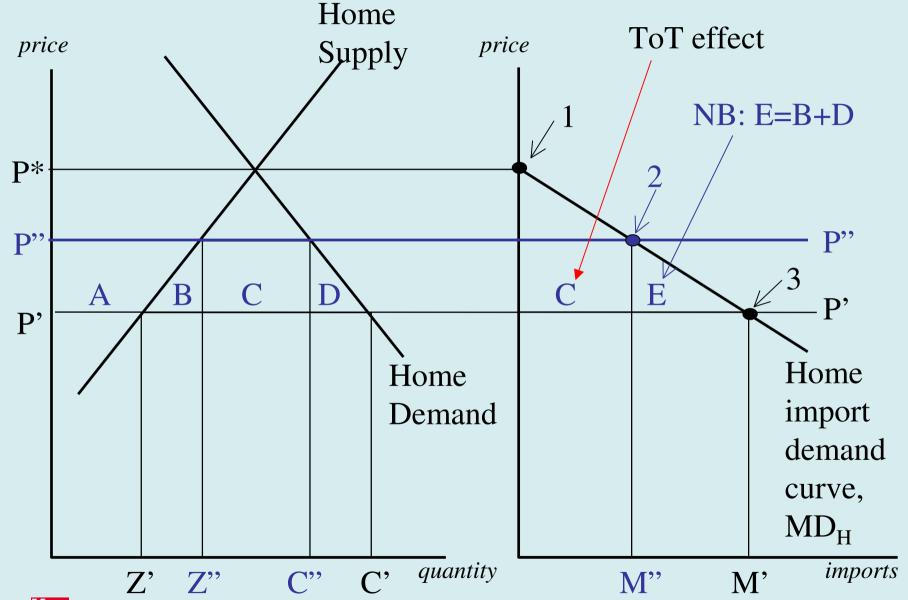




Import supply curve (MS)

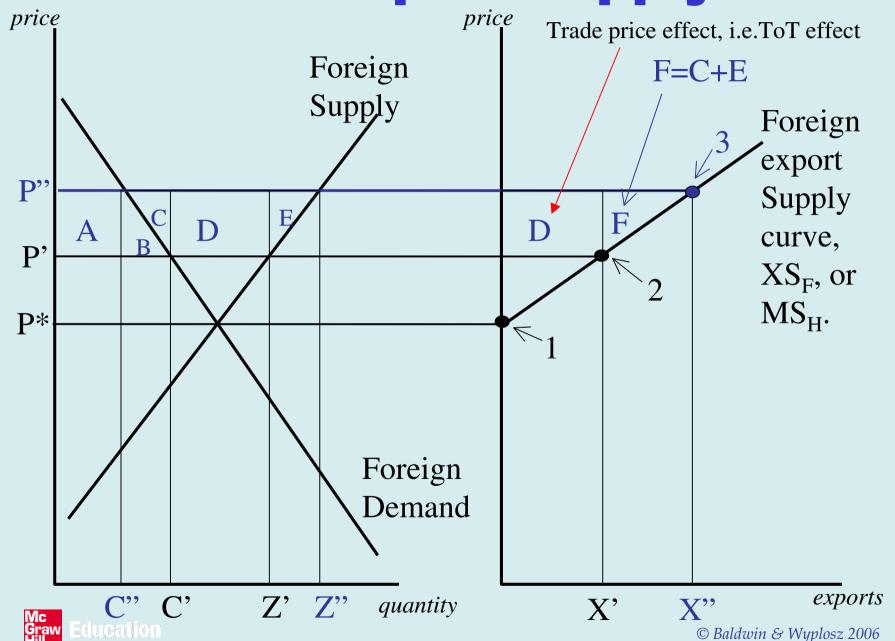


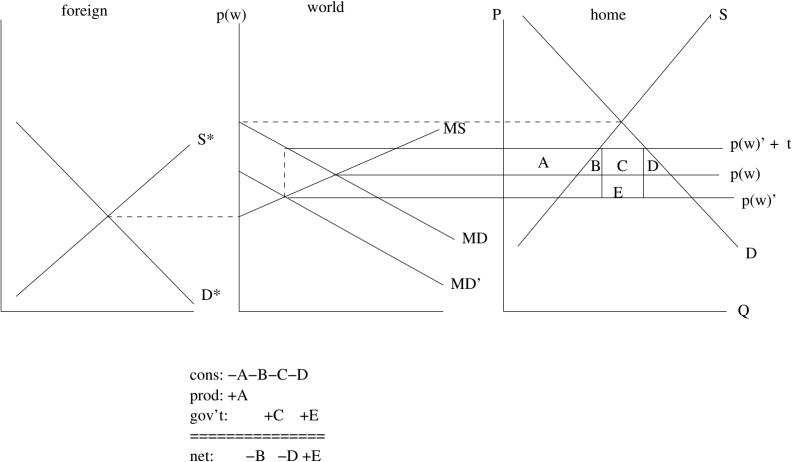
Welfare & Import demand curve





Welfare & Import supply curve





WTO Rules

- A basic principle of the WTO/GATT is nondiscrimination in application of tariffs.
- FTAs and CUs violate this principle.
- Article 24 permits FTAs and CUs subject to conditions:
 - Substantially all trade must be covered
 - Cannot pick and choose products.
 - Intra-bloc tariffs must go to zero within reasonable period.
 - If CU, the CET must not on average be higher than the external tariffs of the CU members were before.
 - In EEC's CU this meant France and Italy lowered their tariffs, Benelux nations raised theirs (German tariffs were about at the average anyway).



Customs Union vs FTA

- FTA like CU but no Common External Tariff.
 - Opens door to 'tariff cheats',
 - goods from RoW destined for Home market enter via Partner if Partner has lower external tariff, called 'trade deflection'.
 - Solution is 'rules of origin' meant to establish where a good was made.
 - Problems: Difficult and expensive to administer, especially as world get more integrated.
 - Rules often become vehicle for disguised protection.
- Despite the origin-problem in FTAs, almost all preferential trade arrangements in world are FTAs.
 - CU's require some political integration.
 - Must agree on CET and how to change it, including anti-dumping duties, etc.



Kemp Wan Theorem

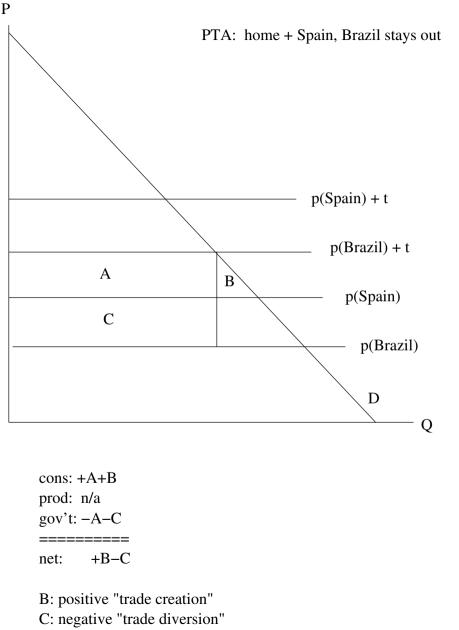
- Possible to alter CET to get Pareto improvement.
- Form CU and adjust CET to ensure zero external trade effect (thus welfare impact on RoW is zero).
- Treat external trade vector as part of endowment vector & First Welfare Theorem tells us FT between partners achieves FB and so is better than distorted equilibrium.
- Not practical, but an intellectual landmark (FTAs need not be bad).



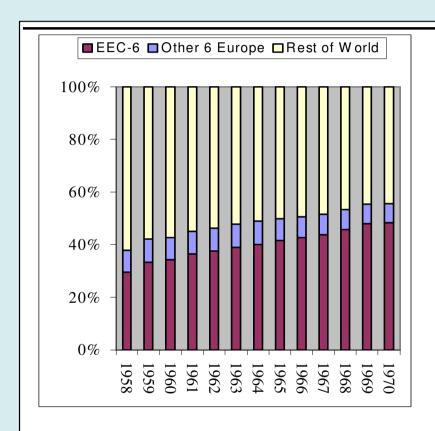
Trade creation & diversion

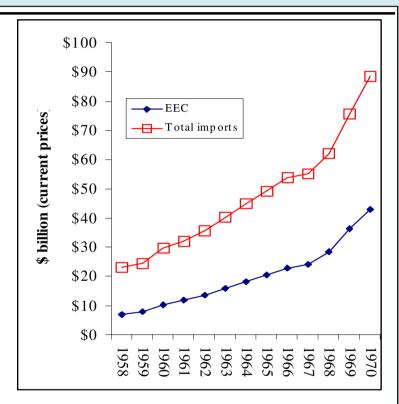
- Trade creation & diversion is jargon that is often used.
 - It is imprecise, but widely used.
 - Intuition for why it is so popular, despite its shortcomings.
 - It captures ambiguity of welfare gains in two words.
- "Discriminatory liberalisation".
 - Liberalisation
 - tends to improve welfare ~ trade creation
 - Discrimination
 - -= tends to diminish welfare ~ trade diversion





Impact of customs union formation





Note: Left panel shows share of EEC6's import from the three regions. Other Euro-6 are the 6 countries that joined the EU by the mid 1980s, UK, Ireland, Denmark, Spain, Portugal and Greece.

Source: Table 5, External Trade and Balance of Payments, Statistical Yearbook, Recapitulation, 1958-1991,

