Table 2.5 (b): Consumption Gains from Specialization:
Constant Opportunity Costs

	Before Trade			After Trade	Net Gain (Loss)	
	<u>Autos</u>	Wheat	Autos	Wheat	<u>Autos</u>	Wheat
US	40	40	60	60	20	20
<u>Canada</u>	40	80	60	100	20	20
World	80	120	120	160	40	40

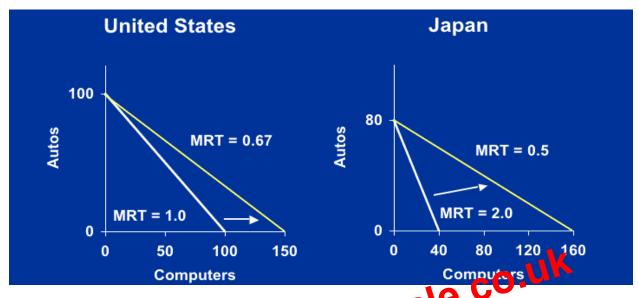
Productivity and Comparative Advantage

- Refer to **Figure 2.4**:
 - Assume that initially the *MRT* of automobiles into computers vauls 1.0 for US and 2.0 for Japan.
 - Thus, the US has comparative advantage in the production of computers and a comparative disadvantage in the production.
 - If both countries experience poddefivity increases in manufacturing computers (auto a changed) but Japan moves with a faster rate.
 - The new May or auto into computers then becomes 0.67 for the US and Confur Japan.

The company exist of a computer in Japan has thus fallen below that in the US due to the increased in productivity.

• The change in manufacturing productivity results in a change in the direction of trade.

Figure 2.4: Changing Comparative Advantage



If productivity in the Japanese computer industry grave in the than it does in US, the relative opportunity cost of US in producing with orders will be higher. Therefore, for the US, comparative advantage shifts from a partiers to autos.

Trade Restriction

- Difaction to achieve the general possible gains from trade, it must produce only the commodity of its comparative advantage.
- However, trade restrictions reduce the production and consumption gains from specialization and trade by decreasing the extent of specialization and the volume of trade.
- For example, see Figure 2.5:
 - US and OPEC have the comparative advantage in producing manufactured goods and crude oil respectively.
 - Thus, US should specialize in (export) manufactured goods at **point B** at the terms of trade *tt*.
 - At post-trade consumption **point** C, US consumption gains from trade total 125 manufactured goods and 100 barrels of crude oil.
 - Due to national security reasons, if US wants to produce both goods at point D, US will achieve a lower post-trade consumption point under the terms of trade tt'.