

Preview

- Measuring the values of production and consumption
- Welfare and terms of trade
- Effects of economic growth
- Effects of international transfers of income
- · Effects of import tariffs and export subsidies
- Income distribution

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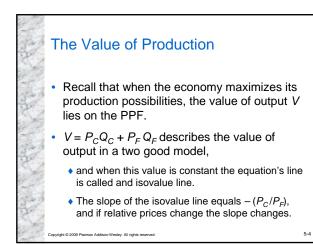
Introduction

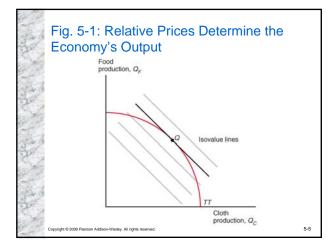
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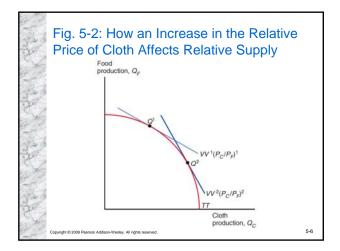
- The standard trade model combines ideas from the Ricardian model and the Heckscher-Ohlin model.
 - Differences in labor services, labor skills, physical capital, land, and technology between countries cause productive differences, leading to gains from trade.
 - 2. These productive differences are represented as differences in production possibility frontiers, which represent the productive capacities of nations.
 - 3. A country's PPF determines its relative supply function.
- National relative supply functions determine world a relative supply function, which along with world relative demand determines an equilibrium under international trade.

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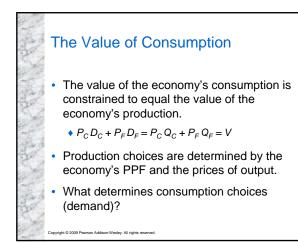


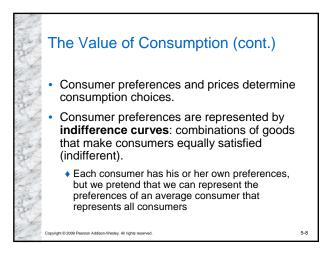


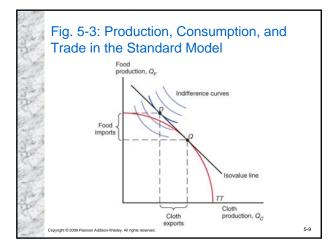




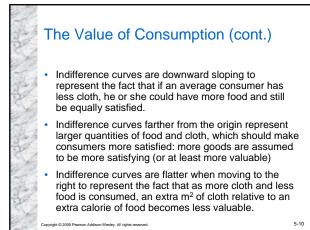


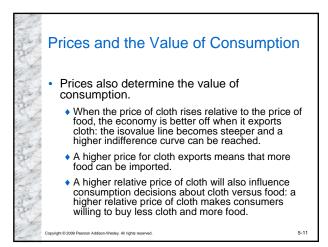


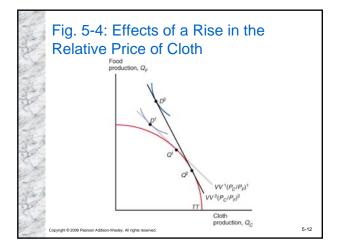




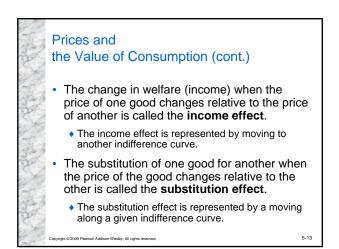












Welfare and the Terms of Trade

- The terms of trade refers to the price of exports relative to the price of imports.
- When a country exports cloth and the relative price of cloth increases, the terms of trade increase or "improve."
- Because a higher price for exports means that the country can afford to buy more imports, an increase in the terms of trade increases a country's welfare.
- A decrease in the terms of trade decreases a country's welfare.

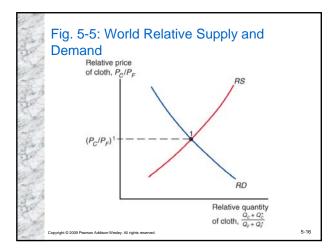
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Determining Relative Prices

- To determine the price of cloth relative to the price food in our model, we again use relative supply and relative demand.
 - Relative supply considers *world* supply of cloth relative to that of food at each relative price.
 - Relative demand considers *world* demand of cloth relative to that of food at each relative price.
 - In a two country model, world quantities are the sum of quantities from the domestic and foreign countries.

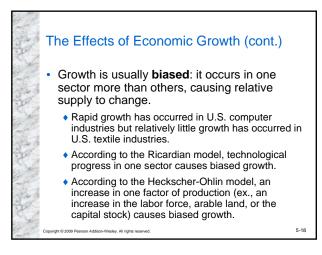
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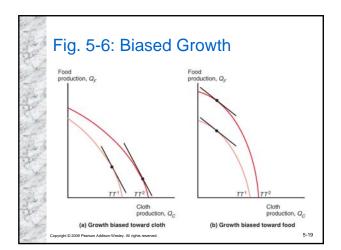




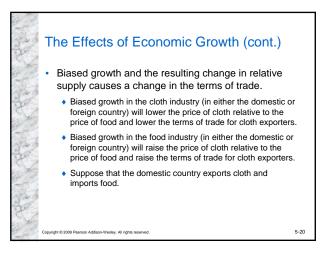
The Effects of Economic Growth Is economic growth in China good for the standard of living in the U.S.? Is growth in a country more or less valuable when it when it is integrated in the world economy? The standard trade model gives us precise answers to these questions.

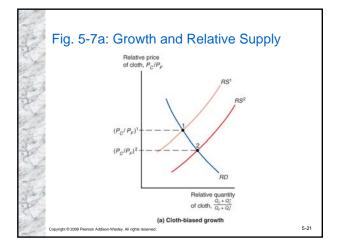
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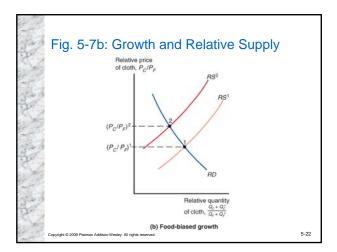














The Effects of Economic Growth (cont.) Export-biased growth is growth that expands a country's production possibilities disproportionally that country's export sector. Biased growth in the food industry in the foreign country is export-biased growth for the foreign country. Import-biased growth is growth that expands a country's production possibilities disproportionally in that country's import sector. Biased growth in cloth production in the foreign country is import-biased growth for the foreign country.

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The Effects of Economic Growth (cont.)

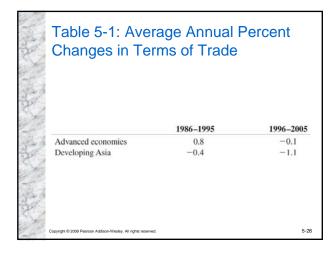
- Export-biased growth reduces a country's terms of trade, generally reducing its welfare and increasing the welfare of foreign countries.
- Import-biased growth increases a country's terms of trade, generally increasing its welfare and decreasing the welfare of foreign countries.

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- The standard trade model predicts that *import* biased growth in China reduces the U.S. terms of trade and the standard of living in the U.S.
 - Import biased growth for China would occur in sectors that compete with U.S. exports.
- But this prediction is not supported by data: there should be negative changes in the terms of trade for the U.S. and other high income countries.
 - In fact, changes in the terms of trade for high income countries have been positive and negative for developing Asian countries.

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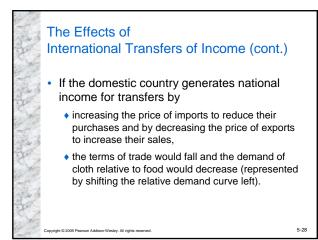
The Effects of International Transfers of Income

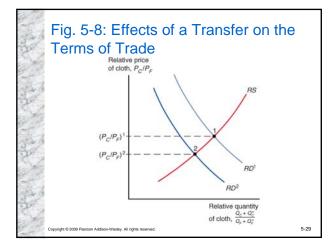
- Transfers of income sometimes occur from one country to another.
 - War reparations or foreign aid may influence demand of traded goods and therefore relative demand.
 - International loans may also influence relative demand in the short run, before the loan is paid back.

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 How do transfers of income across countries affect relative demand and the terms of trade?

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The Effects of International Transfers of Income (cont.)

 But after the transfer of income from the domestic country,

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- demand of foreign goods could fall in the domestic country and demand of domestic goods could rise in the foreign country,
- so the relative demand might not decrease and the terms of trade might not fall.

The Effects of International Transfers of Income (cont.)

- How much does demand of domestic goods increase in the foreign country when it receives a transfer of income from the domestic country?
 - If the foreign country has a higher marginal propensity to spend on its own goods than on imports, demand of its own goods will rise more than demand of imports from the domestic country.

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The Effects of International Transfers of Income (cont.)

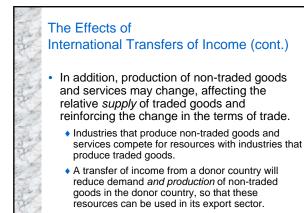
- How much does demand of foreign goods decrease in the domestic country when it reduces its income through a transfer?
 - If the domestic country has a higher marginal propensity to spend on its own goods than on imports, demand of its own goods will fall more than demand of imports from the foreign country.
- If each country has a higher marginal propensity to spend on its own products, relative demand would decrease after a transfer of income from the domestic country.

The Effects of International Transfers of Income (cont.)

- In fact, countries spend most of their (marginal) income on their own products.
 - Americans spend only 11% of national income on imports and 89% on domestically produced goods.
- Transportation costs, tariffs, other barriers, and preferences cause domestic residents to favor domestic goods.
- We predict that the relative demand will decrease with a transfer of income, decreasing the terms of trade for the donor nation.

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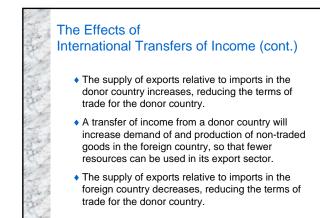
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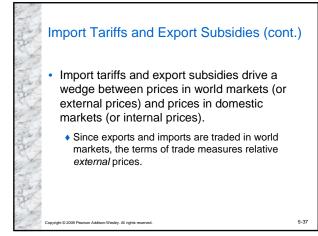
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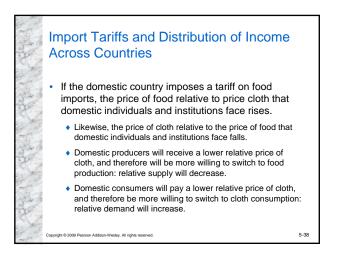
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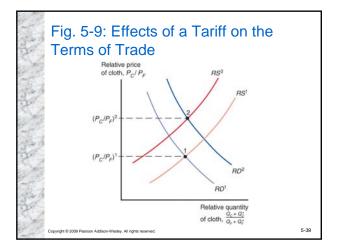


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Import Tariffs and Export Subsidies Import tariffs are taxes levied on imports Export subsidies are payments given to domestic producers that export. Both policies influence the terms of trade and therefore national welfare.







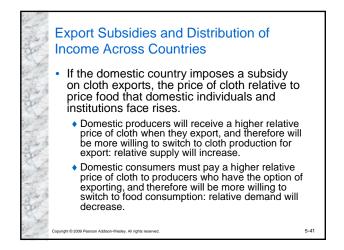


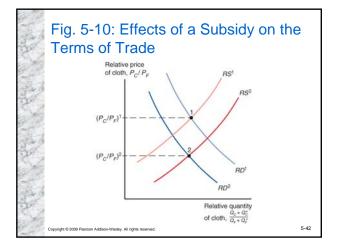


- When the domestic country imposes an import tariff, the terms of trade increases and the welfare of the country may increase.
- The magnitude of this effect depends on the size of the domestic country relative to the world economy.
 - If the country is small part of the world economy, its tariff (or subsidy) policies will not have much effect on world relative supply and demand, and thus on the terms of trade.
 - But for large countries, a tariff rate that maximizes national welfare at the expense of foreign countries may exist.

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Export Subsidies and Distribution of Income Across Countries (cont.)

 When the domestic country imposes an export subsidy, the terms of trade decreases and the welfare of the country decreases to the benefit of the foreign country.

Import Tariffs, Export Subsidies and Distribution of Income Across Countries

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· The two country, two good model predicts that

- an import tariff by the domestic country can increase domestic welfare at the expense of the foreign country.
- an export subsidy by the domestic country reduces domestic welfare to the benefit of the foreign country.

Import Tariffs and Export Subsidies in Other Countries

- But we have ignored the effects of tariffs and subsidies that occur in a world with many countries and many goods:
 - A foreign country may subsidize the export of a good that the US also exports, which will reduce the price for the U.S. in world markets and decrease its terms of trade.
 - The EU subsidizes agricultural exports, which reduce the price that American farmers receive for their goods in world markets.
 - A foreign country may put a tariff on an imported good that the U.S. also imports, which will reduce the price for the U.S. in world markets and increase its terms of trade.

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Import Tariffs and Export Subsidies in Other Countries (cont.)

- Export subsidies by foreign countries on goods that
 the U.S. imports reduce the world price of U.S. imports and
 - increase the terms of trade for the U.S.the U.S. also exports reduce the world price of U.S. exports
 - and decrease the terms of trade for the U.S.
 - Import tariffs by foreign countries on goods that • the U.S. exports reduce the world price of U.S. exports and
 - decrease the terms of trade for the U.S.
 - the U.S. also imports reduce the world price of U.S. imports and increase the terms of trade for the U.S.

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Import Tariffs and Export Subsidies

- Export subsidies on a good *decrease the* relative world price of that good by increasing relative supply of that good and decreasing relative demand of that good.
- Import tariffs on a good decrease the relative world price of that good (and increase the relative world price of other goods) by increasing the relative supply of that good and decreasing the relative demand of that good.

Import Tariffs, Export Subsidies, and Distribution of Income Within a Country

 Because of changes in relative prices, import tariffs and export subsidies have effects on income distribution among producers within a country.

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Import Tariffs, Export Subsidies, and Distribution of Income Within a Country (cont.)

- Generally, a domestic import tariff increases income for domestic import-competing producers by allowing the price of their goods to rise to match increased import prices, and it shifts resources away from the export sector.
- Generally, a domestic export subsidy increases income for domestic exporters, and it shifts resources away from the import-competing sector.

Summary

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- 1. A change in relative prices, say due to trade, causes an income effect and a substitution effect.
- 2. The terms of trade refers to the price of exports relative to the price of imports in world markets.
- 3. Export-biased growth reduces a country's terms of trade, generally reducing its welfare and increasing the welfare of foreign countries.
- Import-biased growth increases a country's terms of trade, generally increasing its welfare and decreasing the welfare of foreign countries.

Summary (cont.)

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- 5. The effect of international transfers of income depend on the marginal propensity to spend on domestic goods, but generally the relative demand of a donor will decrease with such transfers, causing a decrease in its terms of trade.
- When the domestic country imposes an import tariff, its terms of trade increases and its welfare may increase.

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