

International Economics

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Problem Set 3 - Monopolistic Competition

Exercise 1:

New trade theories of trade make a substantial step toward reality. Countries can engage in international trade even in absence of a comparative advantage (in terms of either production or resources).

- a. Describe the major differences between *OLD* and *NEW* trade theory.
 - Assumptions
 - Outcomes
- b. What are the implications of trade for firm size and number?
- c. What are the (theoretical) distributional impacts from intra-industry trade?

Exercise 2: Measuring Intra-Industry Trade

Consider Barduba, a hypothetical tropical country that only trades 3 goods. Its import/exports pattern is represented in the table below

Good	Exports	Imports
Phosphates	1000	100
Spices	150	80
Vegetable Oil	300	400

- a. What index captures the extent of intra-industry trade?
- b. Compute the index for Barduba.
- c. Interpret the computed numbers.

Exercise 3: Monopolistic Competition and Trade

Assume two countries: Home and Foreign. None of them has a particular advantage in terms of factor endowment. Also, both countries have access to similar technology.

- a. According to Old trade theory, what would be the result of trade? Why?
- b. Assume the following setting:

F	=	<i>FixedCosts</i>	=	750,000,000US\$
S_h	=	<i>Homemarketsize</i>	=	900,000units
S_f	=	<i>Foreignmarketsize</i>	=	1,600,000units
S_{f2}	=	<i>ThirdCountryMarketsize</i>	=	3,750,000units
c	=	<i>MarginalCost</i>	=	5,000US\$
β	=	<i>Firm'sMarketSensibilitytoprice</i>	=	1/30,000

Determine n , Q , \bar{p}

- c. What would happen if one more firms steps into the market, attracted by the extra-profit π ? Show graphically the intuition.