Problem Set #2 Tariffs and Quotas

- 1. Use the small-economy, partial equilibrium model of a tariff to answer the following questions:
 - a. How does a rise in the world price of a good that is imported subject to a constant specific tariff affect the well being of various groups in the importing economy?
 - b. In your answer to part (a), would the effects on any of these groups be different if the tariff were *ad valorem* instead of specific?
 - c. For a given world price and a given quantity of imports with free trade, determine how the various welfare effects of a given tariff, compared to free trade, depend on the elasticities of domestic supply and domestic demand for the good.
 - d. Suppose that domestic supply is perfectly elastic at a price higher than the world price. Determine the welfare effects of a tariff starting from free trade.
 - e. Under the assumption of part (d), suppose that a tariff is more than large enough for domestic production to take place. What are the effects of increasing the size of that tariff even further?
- 2. Describe how you would find the optimal tariff of a large country whose elasticity of demand for imports is zero.
- 3. Starting from an equilibrium in which imports of a good into a small country are reduced from their free trade level to some level, M_0 , by either a specific tariff, t_0 , or by an auctioned import quota, q_0 , compare the effects under the tariff and under the quota on i) domestic price, ii) producer welfare, iii) consumer welfare, and iv) government revenue of the following changes:
 - a. An increase (shift to the right) of domestic demand;
 - b. An increase (shift to the right) of domestic supply;
 - c. A fall in the world price.