1. (25 %) 請提出一個模型描述台灣房地產市場並進行均衡分析，再以均衡分析結果進一步探討政府實施奢侈稅對台灣房地產的影響。

2. (25 %) 廠商可以選擇在本國生產商品，再外銷到其他國家；或直接到外國設廠生產並在該國銷售。請分別就廠商與政府的立場，分析這兩種策略的利弊得失。

3. Suppose preferences are represented by the Cobb-Douglas utility function, $u(x,y) = Ax^{\alpha}y^{1-\alpha}$, $0 < \alpha < 1$, and $A > 0$. Assuming an interior solution.

   a. (8 %) Solve for the Marshallian demand functions.

   b. (8 %) Solve for the Hicksian demand functions.

4. Suppose preferences are represented by $v(x,y) = \ln Ax^{\alpha}y^{1-\alpha}$, $0 < \alpha < 1$, and $A > 0$. Assuming an interior solution.

   a. (8 %) Solve for the Marshallian demand functions.

   b. (8 %) Solve for the Hicksian demand functions.

   c. (8 %) Compare your answers to Q.3, verify that they are identical and explain why.

   d. (10 %) Show that the same result can be achieved for any $f(u(x))$, where $f' > 0$.