Homework 10

1. Suppose that the IS and LM equations are as follows,

$$\begin{split} \textbf{IS:} \quad Y &= C(Y-T) + I(r) + G, \\ C(Y-T) &= a + b \cdot (Y-T), \\ I(r) &= d - e \cdot r, \\ \textbf{LM:} \quad \frac{M}{P} &= L(r,Y) = M_0 + f \cdot Y - g \cdot r, \end{split}$$

where a, b, d, e, f, g, and M_0 are all positive constants and b < 1.

- a) Derive the AD equation from the IS and LM equations.
- b) How does the AD curve shift when there is a negative shock to the investment sentiment. Specifically, the investment function becomes $I(r) = d d_0 e \cdot r$, where $d_0 > 0$.
- 2. Draw the AD curves for the following models:
 - a) The small-open-economy model with a floating exchange rate.
 - b) The small-open-economy model with a fixed exchange rate.