

Homework 8

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

$$\begin{aligned}\text{IS: } Y &= C(Y - T, r) + I(r) + G, \\ C(Y - T, r) &= a + b \cdot (Y - T) - c \cdot r, \\ I(r) &= d - e \cdot r,\end{aligned}$$

$$\text{LM: } \frac{h \cdot M}{P} = L(r, Y) = M_0 + f \cdot Y - g \cdot r,$$

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

- Given an increase in G , say ΔG , calculate the government multiplier effect. Compare your result with (i) the Keynesian Cross case, $c = e = 0$; (ii) the case where $c = 0$.
- If $f = h = 0$, does a monetary stimulus raise output? Does a fiscal stimulus work?
- If $g = 0$, does a monetary stimulus raise output? What about a fiscal stimulus?