$(\partial Y^*/\partial G_0) = L'/|J| > 0$ and $(\partial i^*/\partial G_0) = -k/|J| > 0$

Similarly for monetary policy: Now the vector of unknowns involves $\partial Y^* / \partial M_0$ and $\partial i^*/\partial M_0$, and the vector of constants is [0 1] instead of [1 0]. Then:

 $\partial Y^* / \partial M_0 = I' / |J| > 0$ and $\partial i^* / \partial M_0 = (1 - C') / |J| < 0$.

Bothe policies are effective.

In the previous question assume now that the demand for money is no longer 2. dependent on the interest rate (while still depends on Y).

- Write the revised model. (a)
- (b) Write the new Jacobian determinant. Is the new J-determinant larger or smaller in absolute value compared to the one in the previous question?
- (C)
- How do the effectiveness of fiscal and monetary policies compare in the two situations? (d)
- Answer
- (a)

$$kY - M_{s0} \equiv 0.$$

which is numerically smaller.

(c) With G₀ changing:

$$\begin{array}{c|c} \hline 1 - C' & -I' \\ \hline \\ \hline \\ k & 0 \end{array} \quad \begin{array}{c} \hline \partial Y^* / \partial G 0 \\ \hline \\ \partial i^* / \partial G 0 \end{array} = \begin{bmatrix} 1 \\ \hline \\ 0 \\ \hline \end{array}$$

 $\partial Y^*/G0 = 0$ and $\partial i^*/\partial G0 = -k/|J|' > 0$. Thus, fiscal policy becomes totally ineffective in the changed model.

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