FIN204-Week10-Ch11-12310903刘华杰

4. Consider the impact of an increase in thriftiness in the Keynesian cross model. Suppose the consumption function is

$$C = \bar{C} + c(Y - T)$$

where C is a parameter called autonomous consumption that represents exogenous influences on consumption and c is the marginal propensity to consume.

a. What happens to equilibrium income when the society becomes more thrifty, as represented by a decline in \bar{C} ?

$$Y = PE = C\left(Y - \overline{T}\right) + \overline{I} + \overline{G}$$

$$\implies Y = \overline{C} + c(Y - T) + \overline{I} + \overline{G}$$

$$\implies Y = \frac{\overline{C} - cT + \overline{I} + \overline{G}}{1 - c}$$

$$\implies \Delta Y = \frac{1}{1 - c} \Delta \overline{C}$$

- b. What happens to equilibrium saving? 由于投资等于储蓄且投资为外生给定,所以均衡储蓄不变。
- c. Why do you suppose this result is called the paradox of thrift? 节俭悖论:大家都不消费了导致总产出下降。
- d. Does this paradox arise in the classical model of Chapter 3?
 Why or why not?

在第三章模型中, 假设了总产出等于总购买(包括居民购买和政府

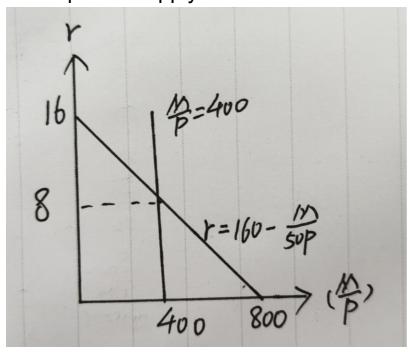
购买),也就是产出水平和消费水平——对应,也就没有节俭悖论。

5. Suppose that the money demand function is

$$(M/P)^d = 800 - 50r,$$

where r is the interest rate in percent. The money supply M is 2,000 and the price level P is fixed at 5.

a. Graph the supply and demand for real money balances.



b. What is the equilibrium interest rate?

$$rac{M}{P} = 800 - 50r$$
 $rac{2000}{5} = 800 - 50r$ $r = 8$

均衡利率为8%

c.What happens to the equilibrium interest rate if the supply of money is reduced from 2,000 to 1,500?

$$r=160-rac{M}{50P} \ \Delta r=-rac{1}{50 imes5}\Delta M=+2$$

均衡利率增加2%,新的均衡利率为10%货币供给减少,均衡利率上升。

d. If the central bank wants the interest rate to be 4 percent, what money supply should it set?

$$M = P(800 - 50r) = 4000 - 250r = 3000$$

新的货币供给应该为M=3000

By Liu Huajie 刘华杰

12310903@mail.sustech.edu.cn

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