Question

Consider the following behavioral equations:

C = c0 + c1YD, T = t0 + t1Y, YD = Y - T, I = b0 + b1Y,G is constant. Assume that t1 is between 0 and 1.

a. Solve for equilibrium output.

b. What is the multiplier? Explain what the following symbols in the equation stand for. c0, c1, t0, t1, YD, b0 and b1.

c. How will a drop in all C, I and G affect inflation? Illustrate this in DIAGRAM with AD and long-run AS.

Solution

- a) Y=C+I+G= c0 + c1(Y t0 t1Y)+ b0 + b1Y+G= c0 + c1Y c1t0 c1t1Y+ b0 + b1Y+G
 Y- c1Y+c1t1Y- b1Y= c0 c1t0 + b0 +G
 Y=(c0 c1t0 + b0 + G)/(1 c1 + c1t1 b1)
- **b)** Multiplier is the factor by which increase in total output are greater than the change in spending that caused it.
 - c0 autonomous consumption
 - c1 marginal propensity to consume
 - t0 lump-sum tax
 - t1 rate of income tax
 - YD disposable income
 - b0 autonomous investment
 - b1- marginal propensity to invest
- c) Drop in all C, I and G negatively affects on aggregate demand : AD1 shifts to AD2. Price falls accordingly from P1 to P2.



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