

Answers to Assignment #4.

10.3 (a) $C = c(Y-T) = c((1-t)Y - \bar{T})$

MPC out of income declines from c_0 to $(1-t)c_0$.

(b) The G -multiplier will decrease.

(c) The IS curve will become steeper as a given fall in r will have a smaller increase in Y .

10.4 (a) $\bar{C} \downarrow \Rightarrow$ IS shifts to the left \Rightarrow $Y \downarrow$ and $r \downarrow$.

(b) $S(\text{saving}) = Y - T - C$

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

$$= (1-c)(Y-T) - \bar{C}$$

$$\Delta S = (1-c)\Delta Y - \Delta \bar{C}$$

In the Keynesian-Cross model, $\Delta Y = \frac{1}{1-c} \Delta \bar{C}$.

-In this case, $\Delta S = (1-c) \cdot \frac{1}{1-c} \Delta \bar{C} - \Delta \bar{C}$

$$= \Delta \bar{C} - \Delta \bar{C}$$

$$= 0$$

No change.

(c) The increase in thriftiness ends up lowering Y without any change in S .

(d) In Ch 3, Y is held at \bar{Y} , no change.

A decrease in \bar{C} is reflected in an increase in \bar{S} dollar for dollar.

11.2.

(a) In this case, investment demand increases.

\Rightarrow IS shifts to right $\Rightarrow Y \uparrow$ and $r \uparrow$.

$\Rightarrow C \uparrow$ and $I \uparrow$.

(Note: In this case, changes in I reflect two factors:

(A) the initial increase in investment demand and (B) the resulting increase in Y . (A raises I and (B) lowers it. On balance, I must rise.)

(To figure this out, examine $Y = C + I + G$.

Here G does not change. ΔC is smaller than ΔY ,

$\Rightarrow \Delta I$ must be positive, or I has to increase.)

(b) In this case, money demand rises and the LM shifts to the left $\Rightarrow Y \downarrow$ and $r \uparrow$

$\Rightarrow C \downarrow$ and $I \downarrow$ (as discussed in class)

(c) Similar to Problem 10.4

an autonomous reduction in $C \Rightarrow$ IS shifts to the left

$\Rightarrow Y \downarrow$ and $r \downarrow$

$\Rightarrow C \downarrow$ and $I \uparrow$.

11-4

(a) MP has no effect, FP has maximal effect.

(b) MP "maximal" FP "no"

(c) MP "maximal" FP "maximal"

(d) MP "no" FP "maximal"