

①

Ketonesian Cross Model (Goods)

Best grade of two  
highest marks

Outcome

Disability, Disease, Endogenous Variables, Exogenous Variables Variable.

(b) Multiplier.

Household possess in atter

GDP War.

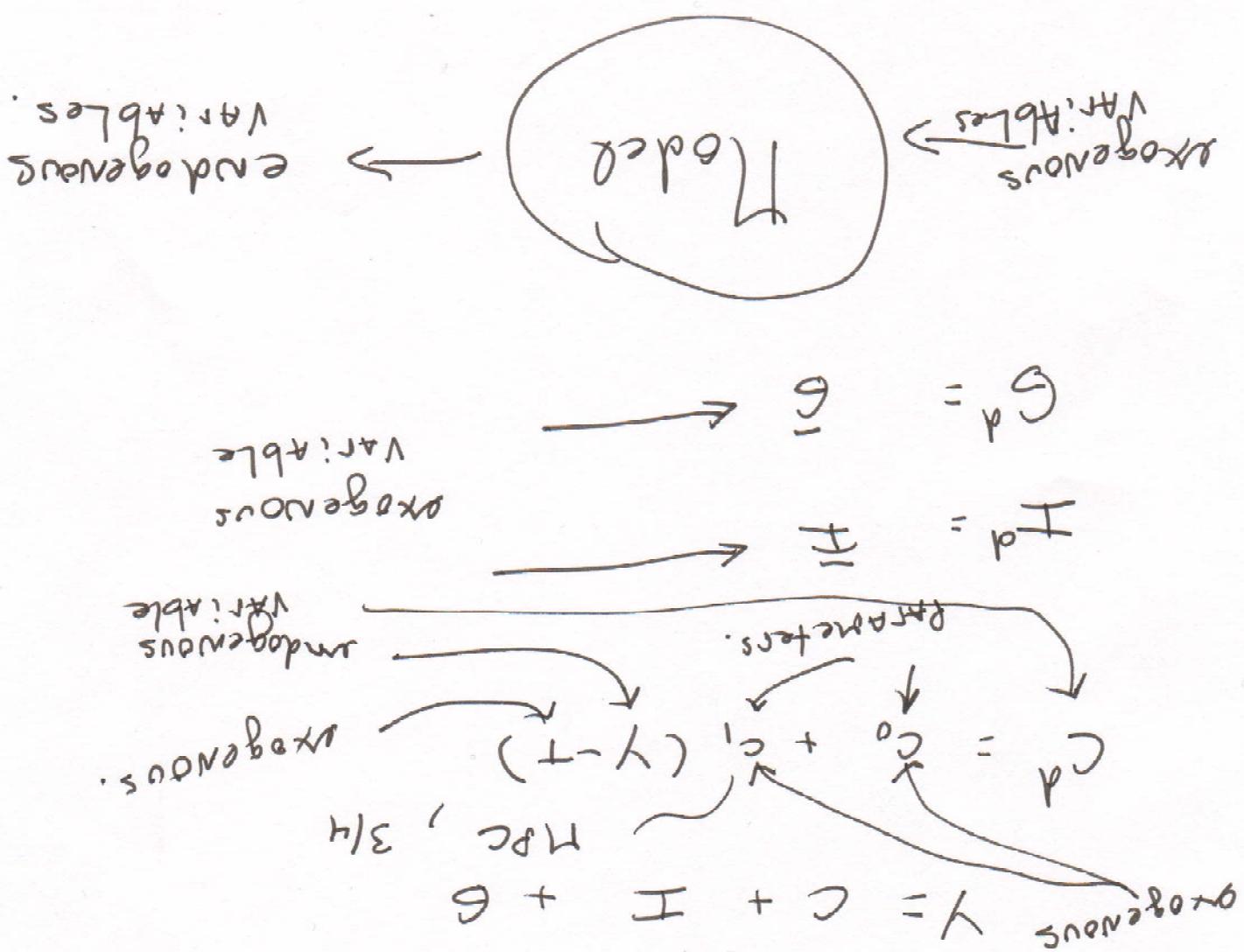
(c) Product of effect.

(d) Tax multiplier, other shocks.

②

(a) Inflation.

(b) Demand for Money.



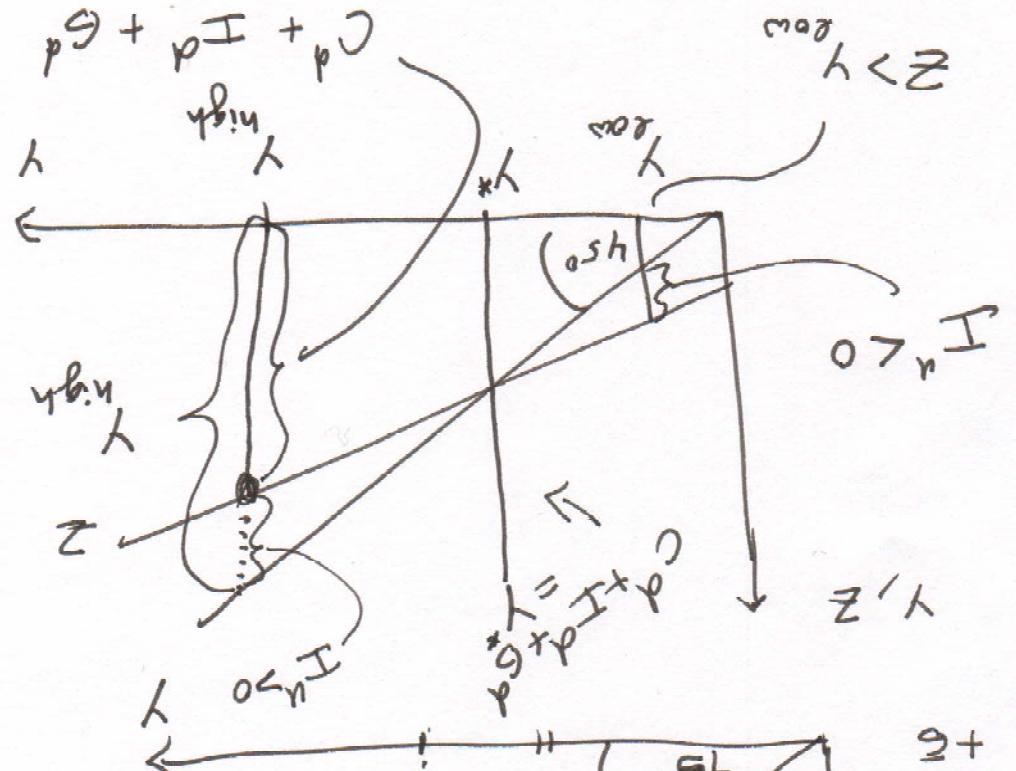
Closed Economy.

۷۴

$$C_d = C, G_d = G, I_d = I$$

Actual  
numbers  
in  
stocks  
and  
inventories.

$$Slope = C + I + G$$

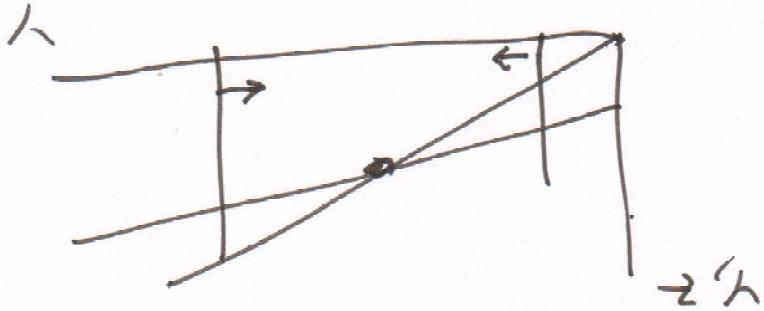


$$Slope = C_1$$

$$Y, Z = C_0 + C_1(Y - T) + I + G$$

$$Z = C_d + I_d + G_d$$

$$G - C_d + I_d$$



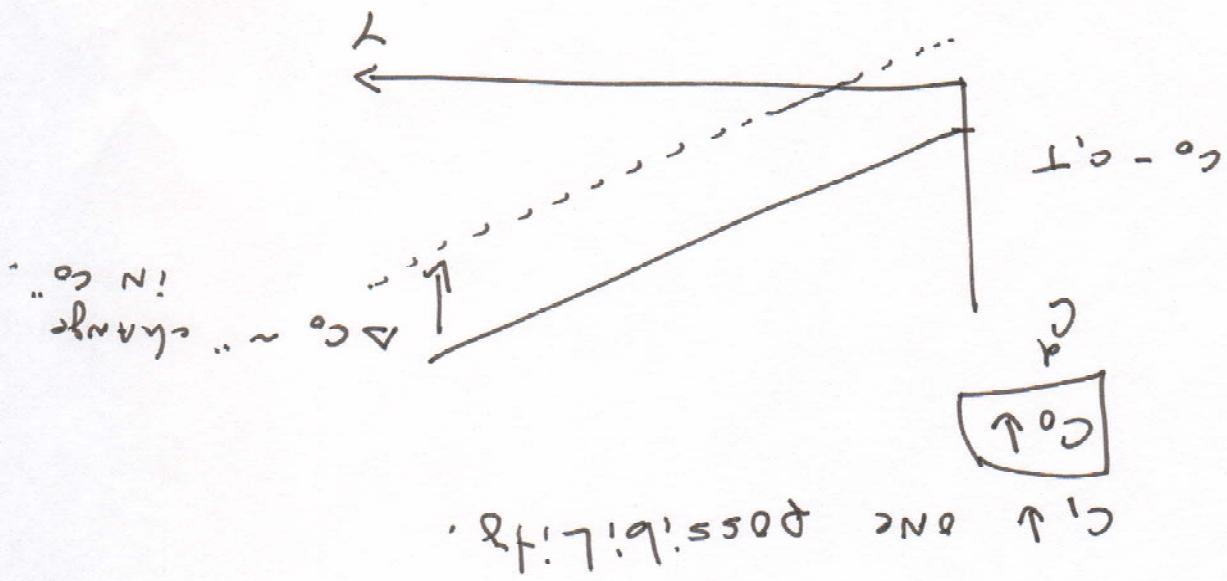
$\frac{d}{dt} \ln \frac{I_u}{I_u + I_n} < 0$   
 Suppose  $I_u > 0$ . Then  
 $I_u < I_n$ .  
 $I_u < I_n$  implies  
 $\frac{I_u}{I_u + I_n} < 1$ .  
 $\frac{I_u}{I_u + I_n} < 1$  implies  
 $\ln \frac{I_u}{I_u + I_n} < 0$ .  
 $\ln \frac{I_u}{I_u + I_n} < 0$  implies  
 $\frac{d}{dt} \ln \frac{I_u}{I_u + I_n} < 0$ .

Diagonalization dynamics.

Suppose  $I_u > 0$ . Then  
 $I_u < I_n$ .  
 $I_u < I_n$  implies  
 $\frac{I_u}{I_u + I_n} < 1$ .  
 $\frac{I_u}{I_u + I_n} < 1$  implies  
 $\ln \frac{I_u}{I_u + I_n} < 0$ .  
 $\ln \frac{I_u}{I_u + I_n} < 0$  implies  
 $\frac{d}{dt} \ln \frac{I_u}{I_u + I_n} < 0$ .

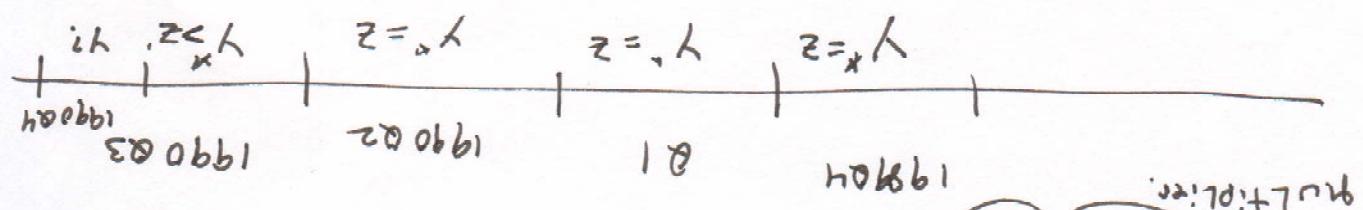
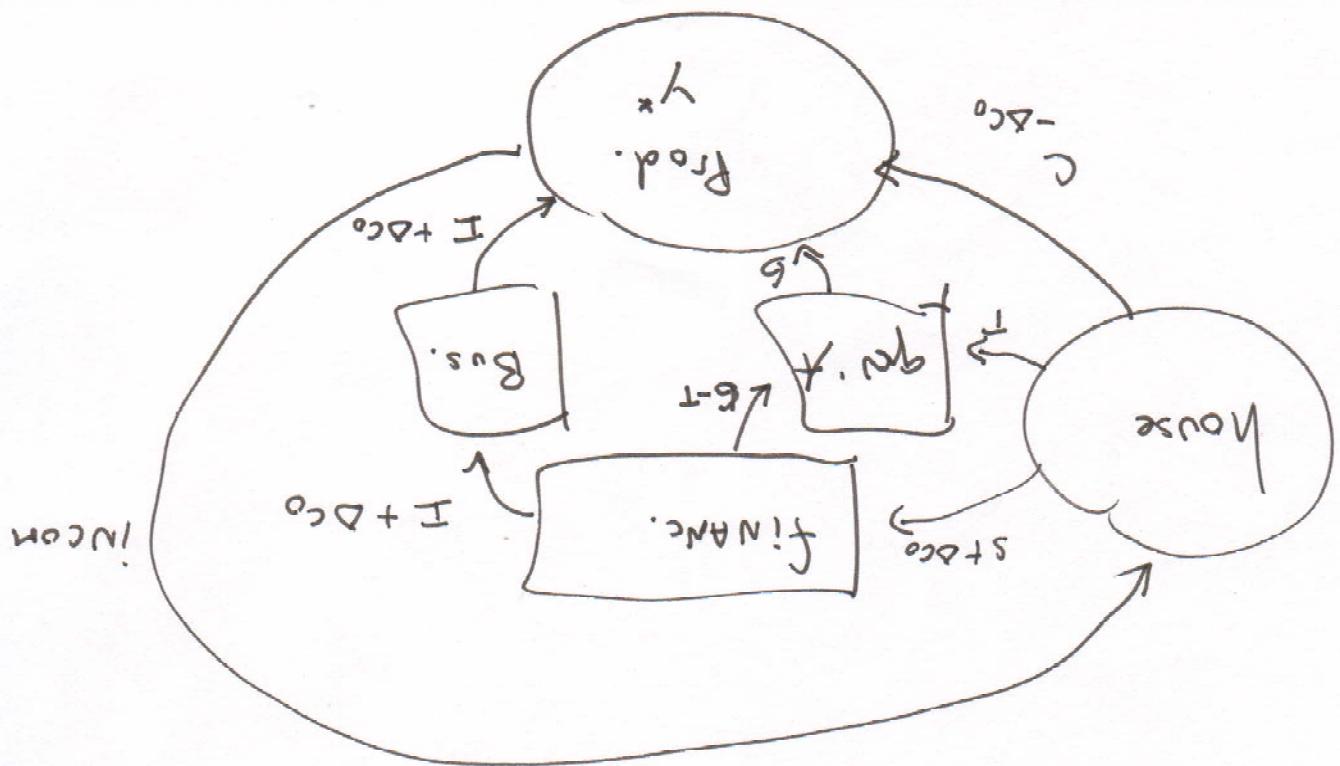
$I_u > 0$ .  
 $(\text{Liveness fees})$   
 $(\text{Invulnerabilities pile up}).$

Suppose  $I_u > 0$ . Then  
 $I_u < I_n$ .  
 $I_u < I_n$  implies  
 $\frac{I_u}{I_u + I_n} < 1$ .  
 $\frac{I_u}{I_u + I_n} < 1$  implies  
 $\ln \frac{I_u}{I_u + I_n} < 0$ .  
 $\ln \frac{I_u}{I_u + I_n} < 0$  implies  
 $\frac{d}{dt} \ln \frac{I_u}{I_u + I_n} < 0$ .

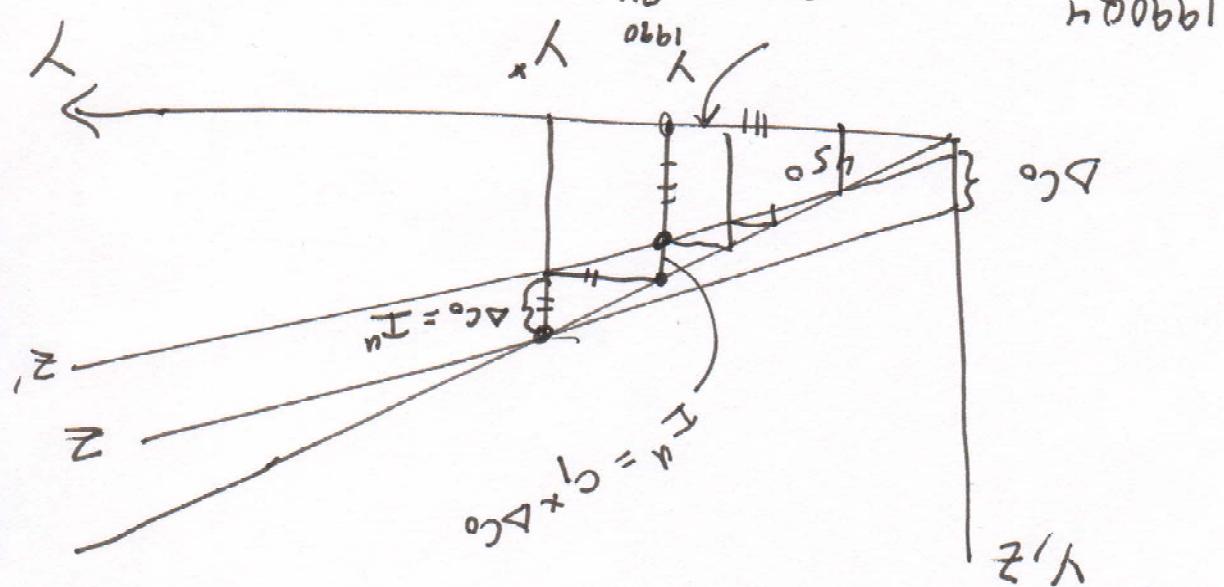


Belief that war would lead to recession had impact on households.

Aug 1990 Gulf war starts  
stop 180 hours



$$\Delta C_0 + C_1 \Delta C_0 + C_2 \Delta C_0 + C_3 \Delta C_0 + \dots = \frac{1}{1 - c_1} \Delta C_0 > \Delta C_0 \quad \text{rule of plausibility}$$



in the end there is no change in saving.  
 such figures + recession big enough that  
 in KC model increase desire to

$$(I - G) - \underbrace{C_0}_{\text{does not change}} = I - (T - G)$$

PLANNED PRIVATE SAVING

$\downarrow \Delta C_0$   
 $\uparrow \Delta I$   
 $\downarrow \Delta T$

WHAT HAPPENS TO SAVING IN NEW EQUILIBRIUM

$$1990A3: + \Delta C_0$$

$$Y - T - G = I - \underbrace{(T - G)}_{\text{PRIVATE INVESTMENT PUBLIC}}$$

$\downarrow \Delta Y$   
 $\downarrow \Delta T$   
 $\downarrow \Delta G$

$$T - G + I + G = Y$$

HAPPEN.

to save more, just bad things  
 PARADISE WHEN WHOLE economy "tries"

leads to good things.

At household level: more saving

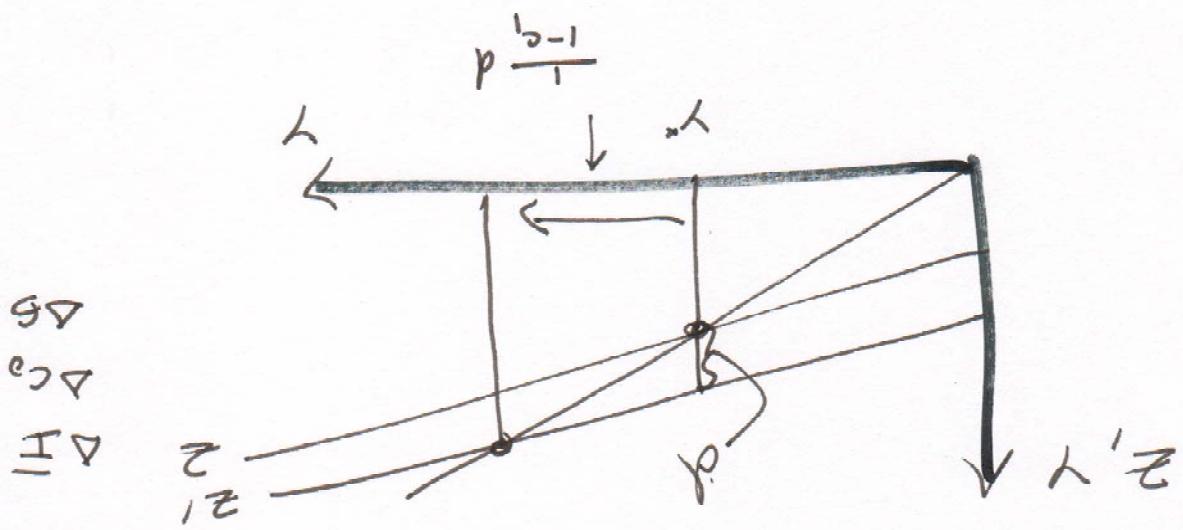
PARADISE OF THIEF.

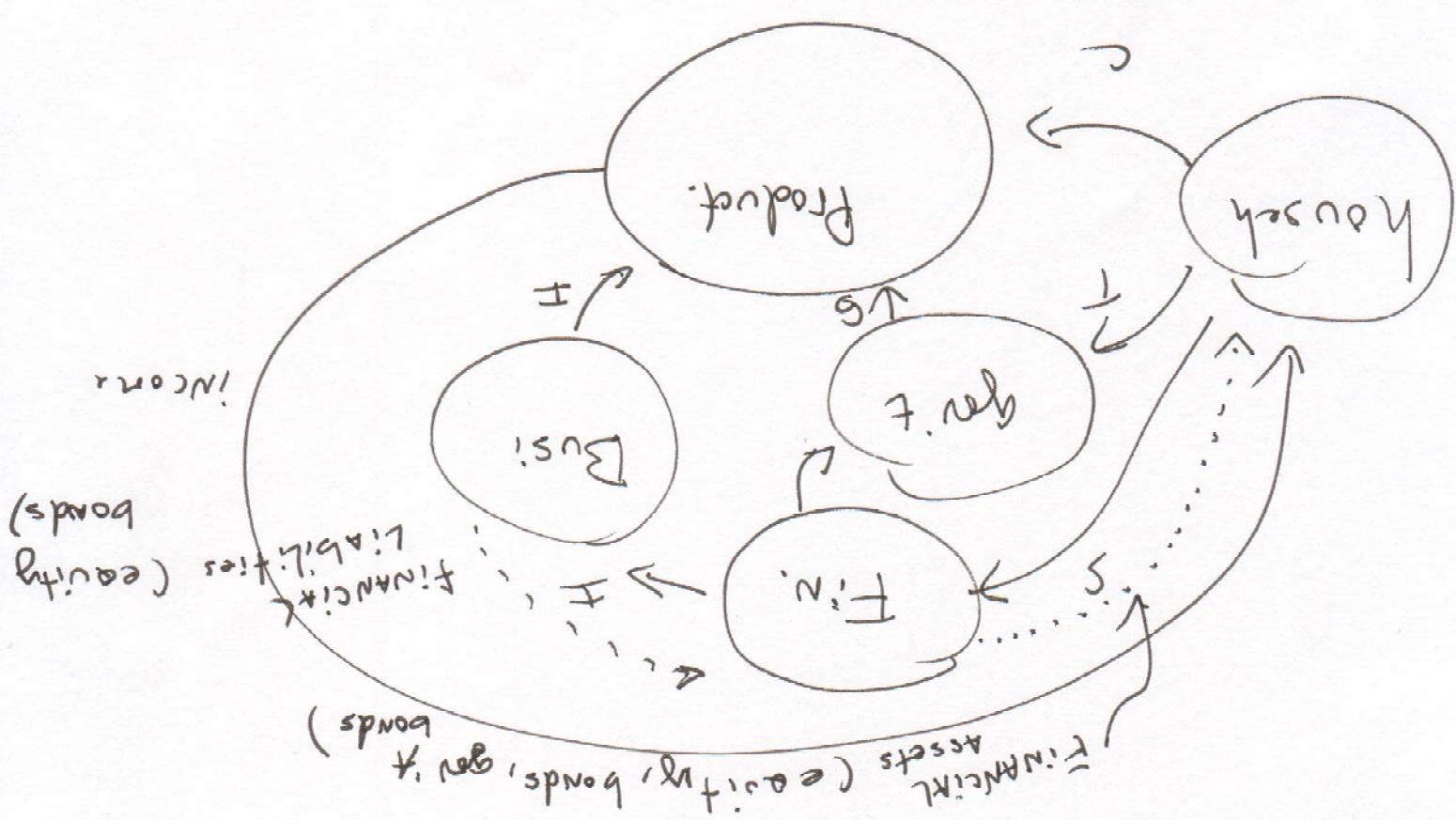
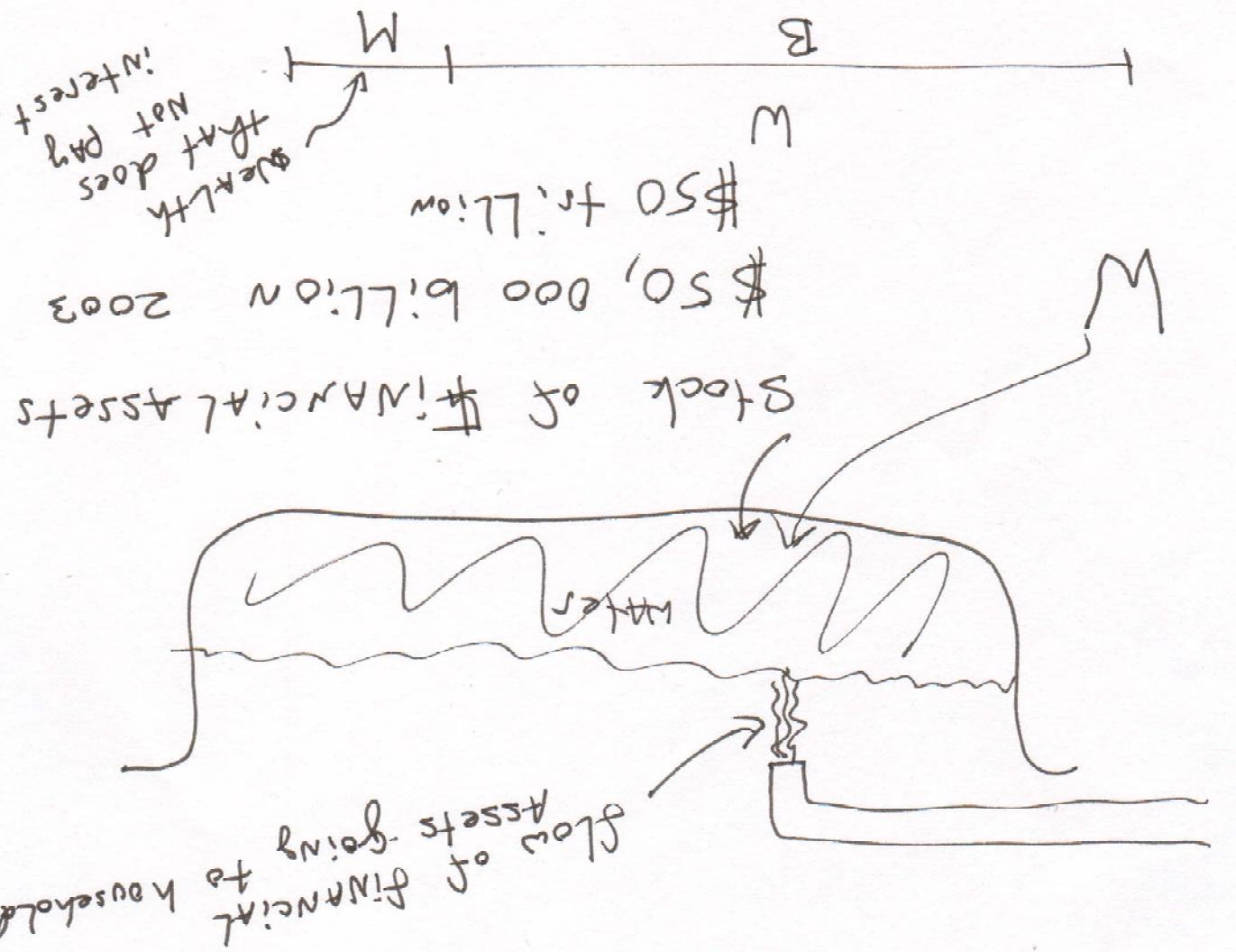
$$\frac{C_1}{1-C_1}$$

Taxes help:

~~income =  $\frac{1-C_1}{\Delta T}$~~

Taxes?  $\Delta T \uparrow$  ~~income =  $\frac{1-C_1}{\Delta T}$~~





Why do people hold  
anti Nazi