

Outline

Mathias
Kehrig

① US in recent times
Puzzles:

(a) 19th century pattern
very different.

(b) Theories of imperialism
completely contradicted.

② Models.

(a) Why do we need them?

(b) Road map for models
that we'll construct.

(c) Circular flow diagram.

(d) Keynesian Cross Model.

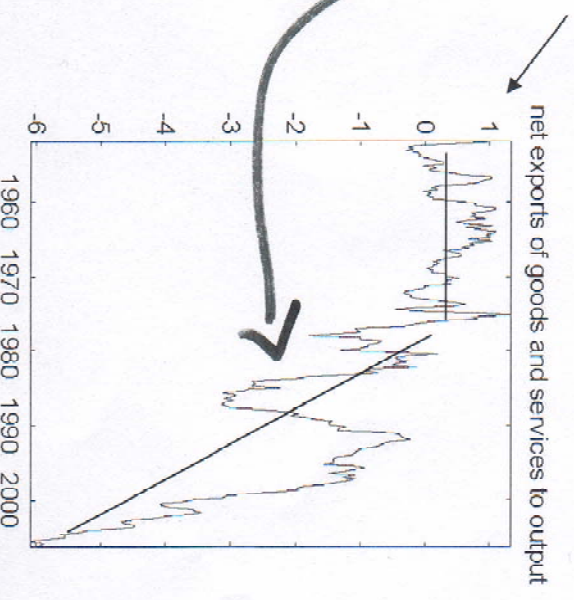
(e) derived vs. actual C, I, G,
Equilibrium, Disequilibrium
Disequilibrium dynamics.

US National Income and Product Accounts

$$\frac{C}{Y} + \frac{I}{Y} + \frac{G}{Y} + \frac{X - N}{Y} = 1$$

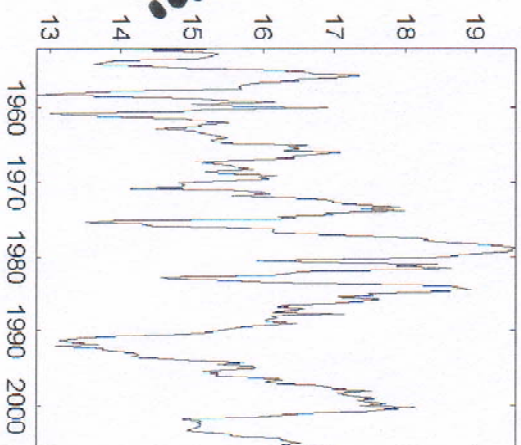
Net exports was roughly balanced in 1960s and 1970s and went negative starting in early 1980s

Why?



US National Income and Product Accounts

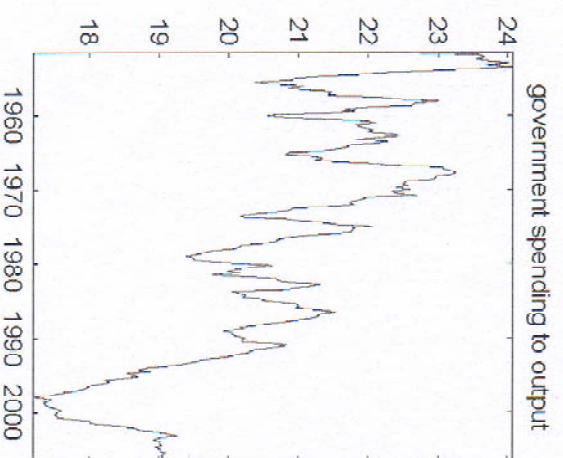
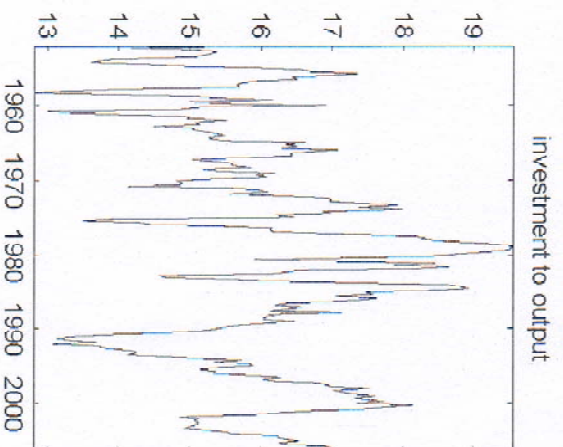
investment to output



I is driven
by expectations,
i.e., put
feeling.

Investment seems to just bounce
up and down without any trend

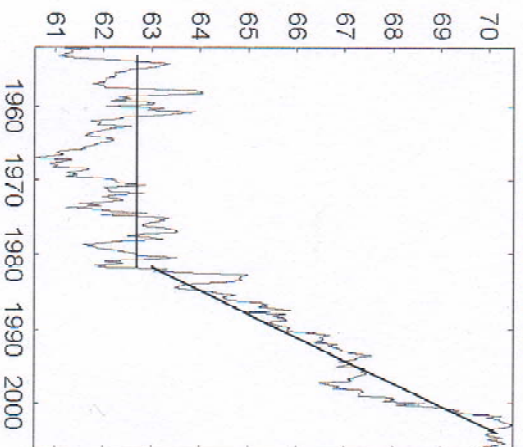
US National Income and Product Accounts



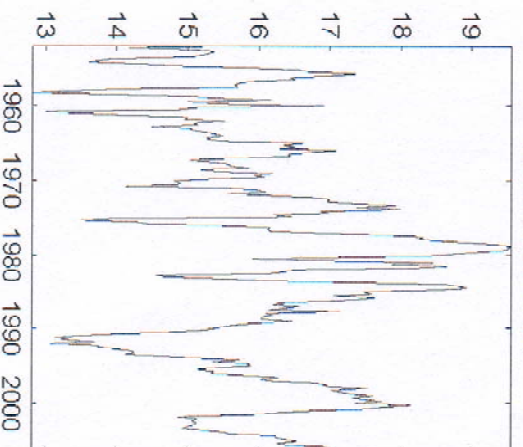
Government purchases of
goods and services is going
down over time (but, not
government *expenditures*)

US National Income and Product Accounts

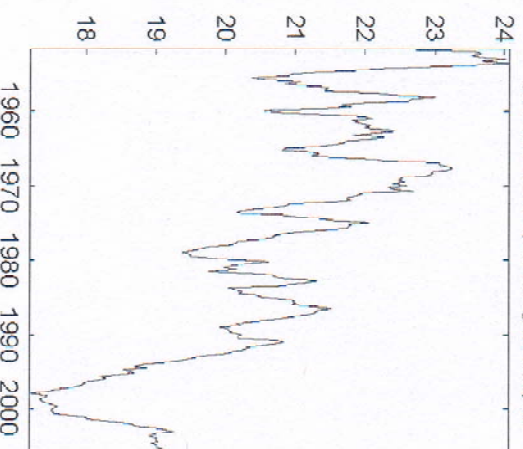
consumption to output



investment to output



government spending to output



Something happened
to the consumption to
output ratio starting in
early 1980s

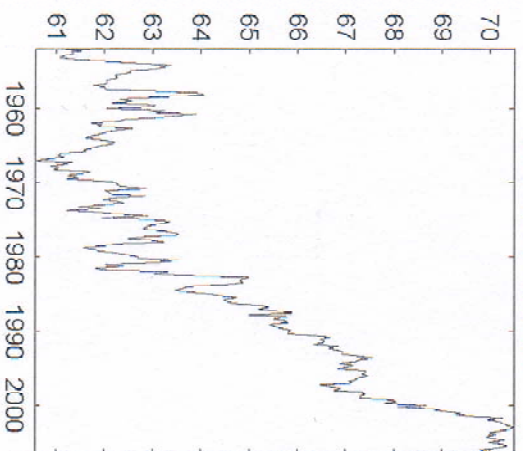
$\frac{x - \pi}{\gamma} \downarrow$ because

$\frac{c}{\gamma} \uparrow$ (A lot)

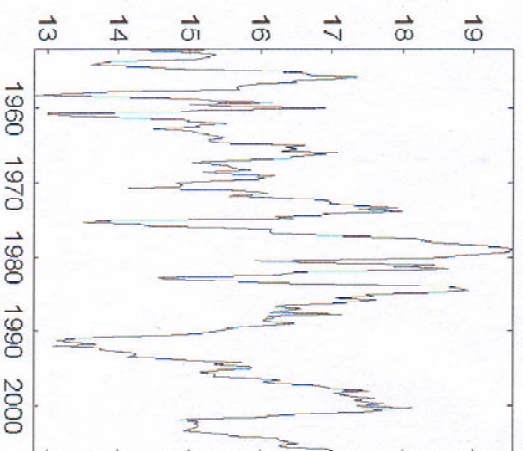
Deeper: Financial Asset side: why do foreigners
want all these
US financial
claims?

US National Income and Product Accounts

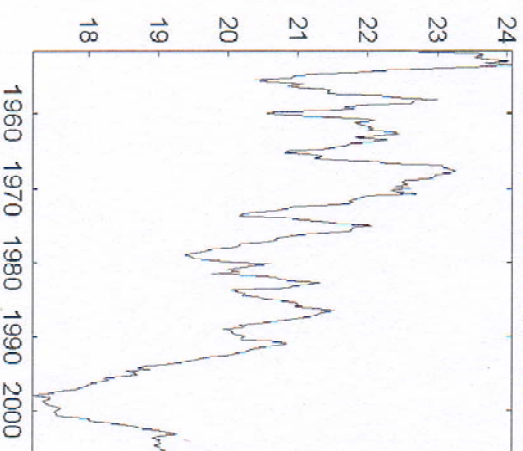
consumption to output



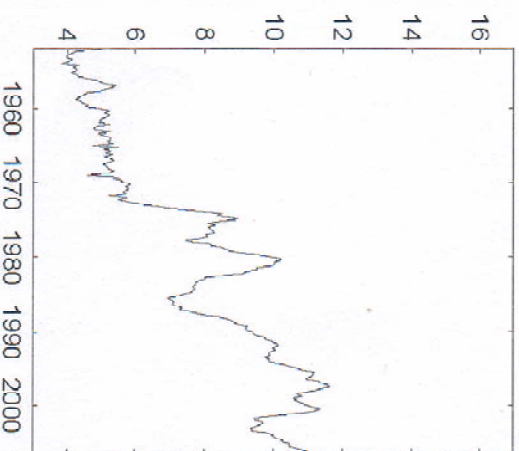
investment to output



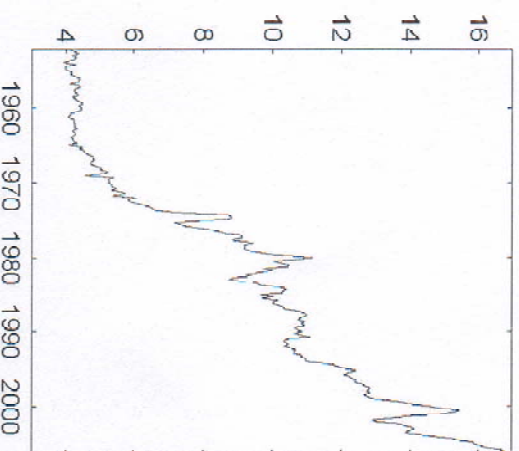
government spending to output



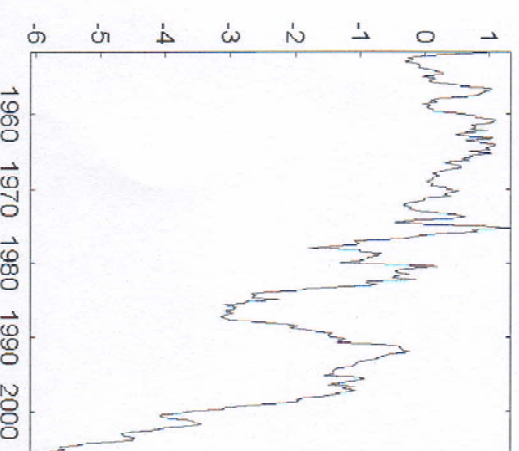
exports of goods and services to output



imports of goods and services to output



net exports of goods and services to output



Possible explanation

Optimistic

① technology has ~~not~~ removed a barrier from foreign ownership of US financial assets. So, they jump on them.

② C/Y ↑ Because the value of Americans' financial assets jumped & they didn't need to ~~save~~ anymore.

Pessimistic ~

Fear that foreigners will suddenly stop being nice.

American stopped saving because it's lazy. Foreigners were nice enough to make us loans.

Government Spending and GDP, billions of dollars

source: <http://www.bea.gov/bea/dn/nipaweb/SelectTable.asp?Selected=N>

Variable	1940	1941	1942	1943	1944	1945
GDP	101.4	126.7	161.9	198.6	219.8	223.1
change from previous year		25.3	35.2	36.7	21.2	3.3
Government	15	26.5	62.7	94.8	105.3	93
change from previous year		11.5	36.2	32.1	10.5	-12.3
Nat'l Defense	2.5	14.3	51.1	84.2	94.5	82
change from previous year		11.8	36.8	33.1	10.3	-12.5

G↑ → Y↑.

Naive thought
G↑ would
not make Y
change.

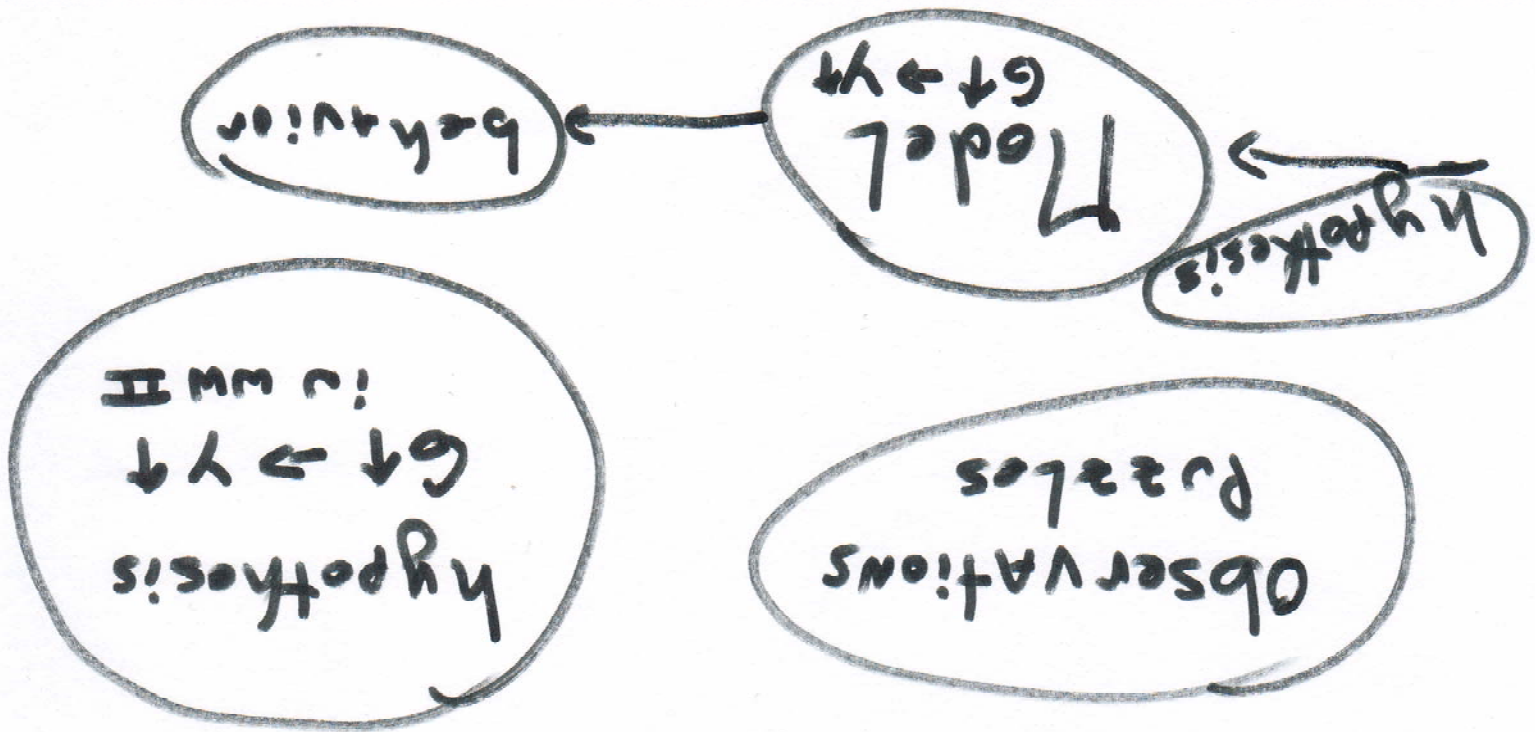
Models

Questions.

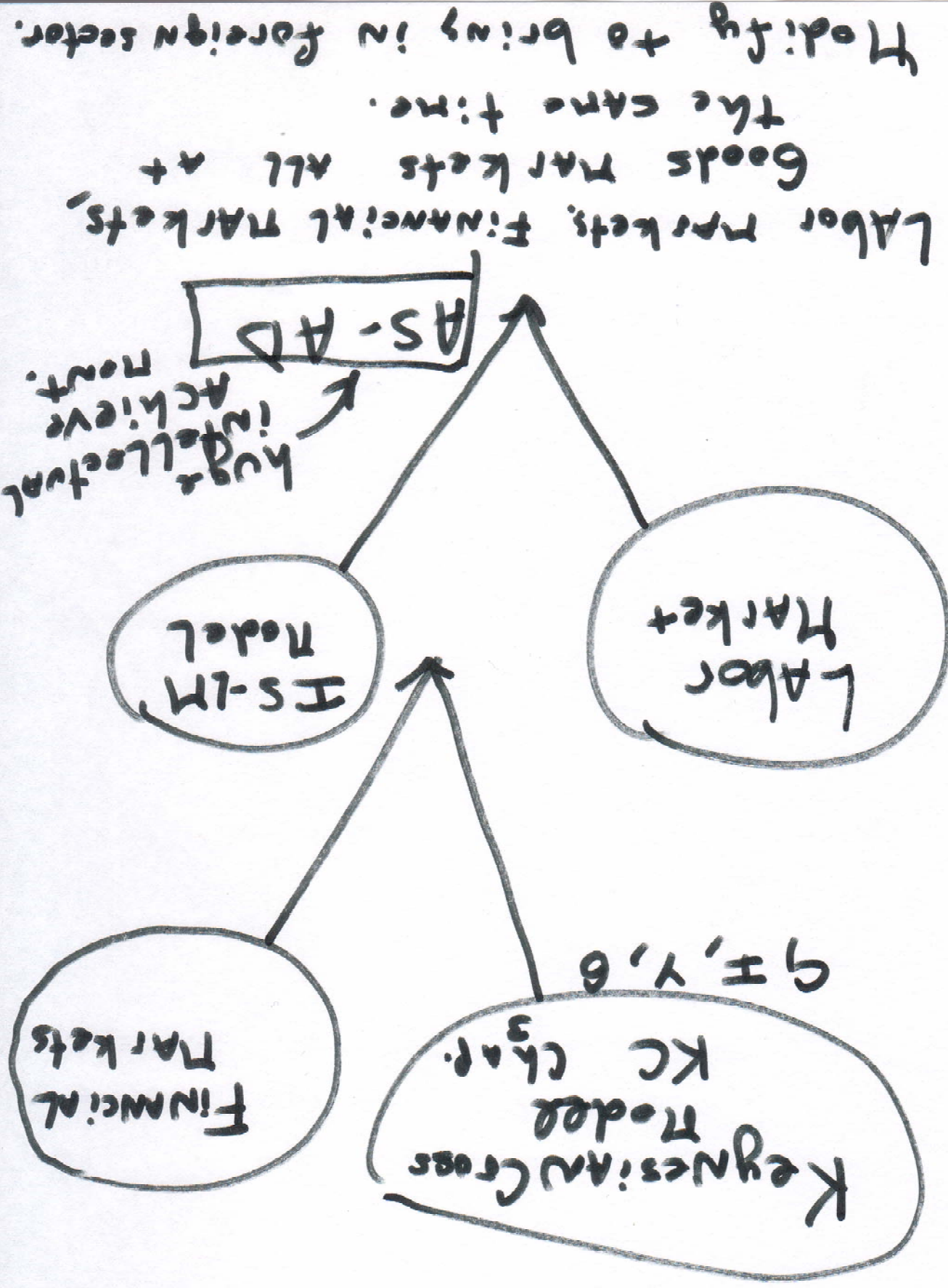
1. Y up a lot in WWII. G up too, was it $G \rightarrow Y$?
2. Y fluctuates.

Sickle Business investment is cause.

2001 recession.



Road map



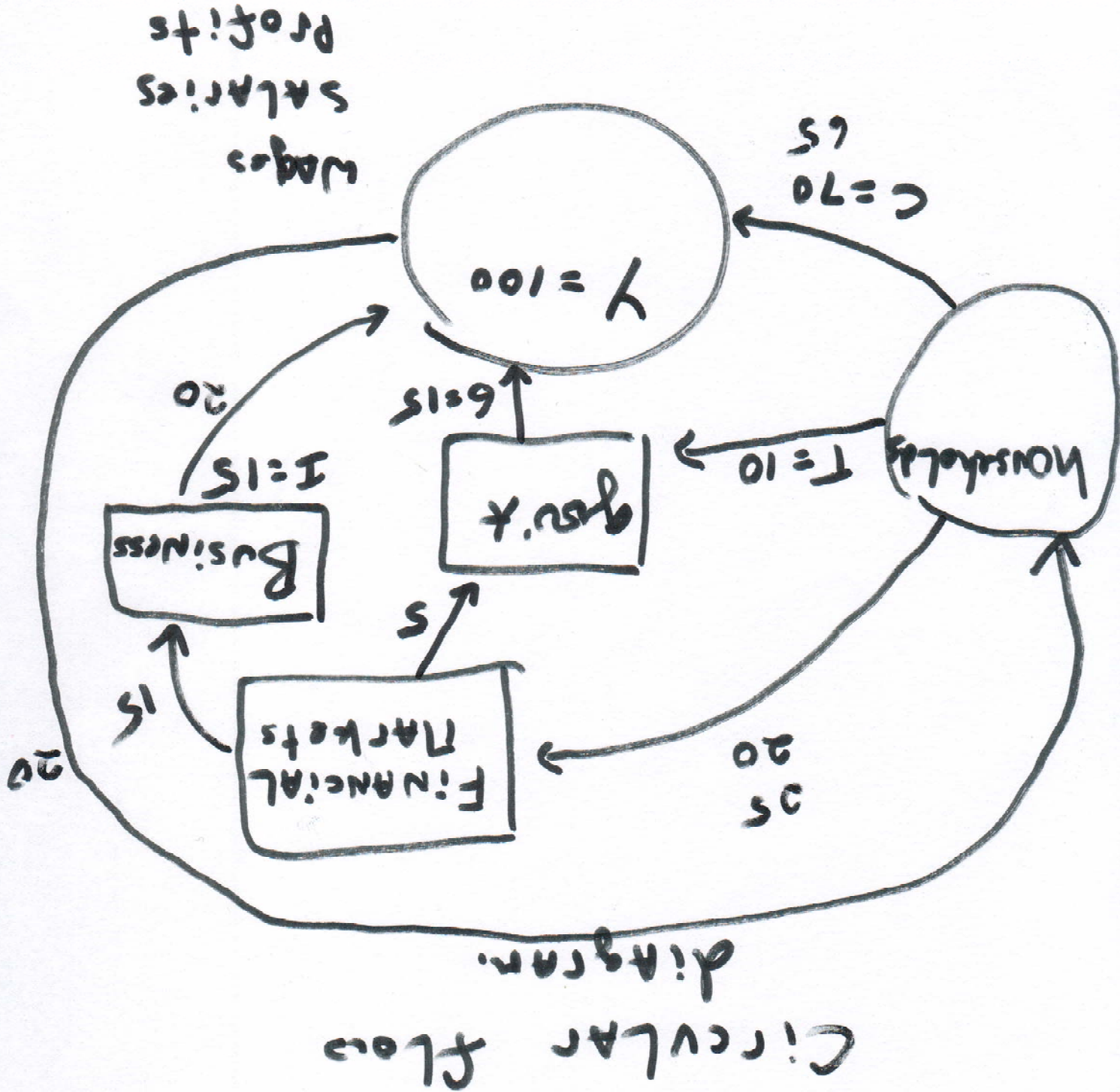
$$S = Y - T - C = 20$$

disposable income

$$Y = 100$$

$$T = 10$$

$$C = 70$$



Keynesian cross

high circular flow disturbed by changes in $G, I, \dots$

$C^d \sim$ desired, planned consumption.

$I^d \sim$ investment

$G^d \sim$ gov't spending

$$C^d = C_0 + c_1 Y^d \quad 0 < c_1 < 1$$

$$Y^d = Y - T \quad \text{MPC}$$

Keynesian Cross

high CIRCULAR
flow disturbed by
changes in $G, I, \dots$

$C^d \sim$ desired, PLANNED
consumption.

$I^d \sim$ " " Investment

$G^d \sim$ " " govt spending

$$C^d = C_0 + c_1 Y_D \quad \begin{matrix} \nwarrow \sim 30 \\ \nearrow \sim \alpha c_1 < 1 \end{matrix}$$

$$Y_D = Y - T \quad \nwarrow \text{MPC}$$

