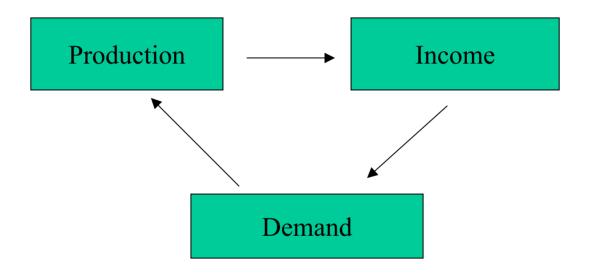
Lecture 3: Basic Aggregate Demand Model

- Review Lecture 2
 - GDP
 - Inflation Rate
 - Unemployment Rate
 - Trade and Budget Deficits

Basic Aggregate Demand Model

- Goal: Determine equilibrium output
- Short-run
- A bit more complex than standard micro demand and supply
 - Feedback
- Shortcuts (isolate one effect)

First Model: The Goods Market



Demand Determined Output

• Aggregate demand (Z):

$$- Z = C + I + G + (X-Q)$$

- Aggregate supply:
 - fixed P
 - as much as needed to satisfy demand
- Model:
 - behavioral equations
 - equilibrium conditions

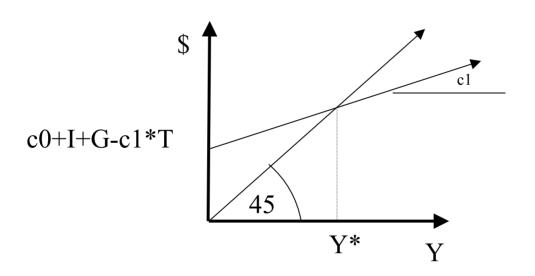
Behavioral Equations

- X-Q = 0 (for now)
- G and I: constant
- C = c0 + c1*YD; c0>0; c<1<1
- YD = Y T, T constant

$$Z = (c0 - c1*T + I + G) + c1*Y$$

Equilibrium

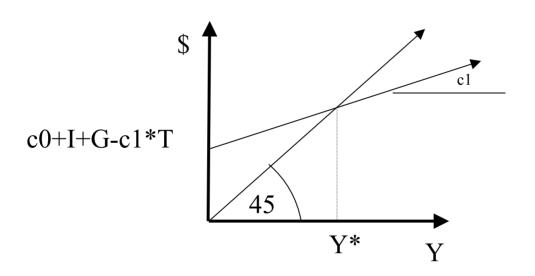
$$Z(Y) = Y$$



$$Y^* = \underbrace{(1/(1-c1))} * \underbrace{(c0-c1*T+I+G)}$$
multiplier autonomous spending

Comparative Statics

Fiscal contraction; consumption boom (stock market)



$$Y^* = (1/(1-c1)) * (c0-c1*T+I+G)$$