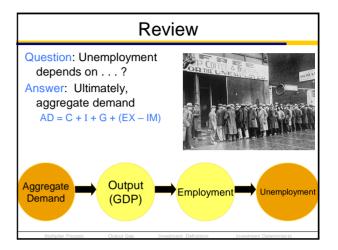
OUTLINE — November 1, 2019

- This is makeup for the lost class due to the outage
- Multiplier, review
 - Closing an Output Gap
- Investment Spending & Its Determinants

Midterm 2 on Wed., Nov 6, 7-8:30 pm Rooms & Review Sessions posted on Piazza Same rules as MT1

Be sure to read yesterday's email

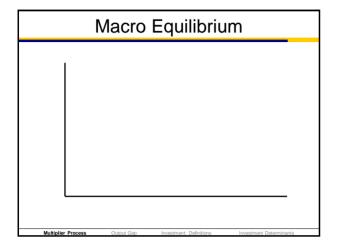


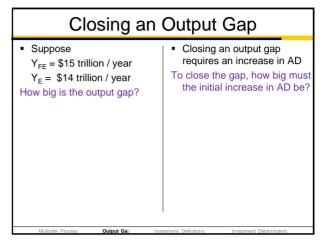
Determinants of Aggregate Demand

- Consumption spending by households (C)
 - YD, wealth, credit availability, ? i ?, expectations
 - YD changes when TA or TR change
- Investment spending by businesses (I, today)
 - Interest rates, expected rates of return, credit availability
- Government spending (G, Nov. 6)
 - Direct fiscal policy (G)
- Net exports (EX & IM, Nov. 4)
 - Exchange rates, health of world economy

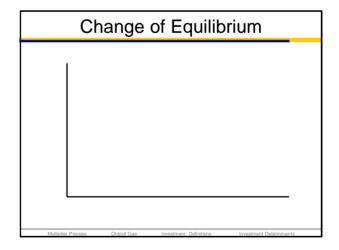
Marie Pour Constitution Defends to the state of Police Constitution of Police Constitution

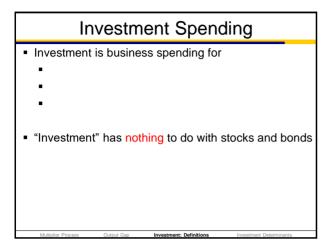
Solving for Equilibrium						
C = 2000 + 0.9·YD TR = 1,000 TA = 3,000	Y = C + I + G + EX - IM					
I = 1,000 G = 400 EX = 200 IM = 400	Investment: Definitions Investment	ent Determinants				

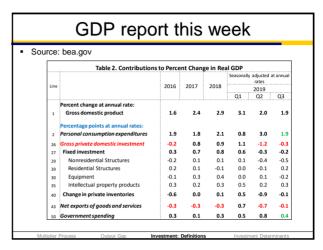


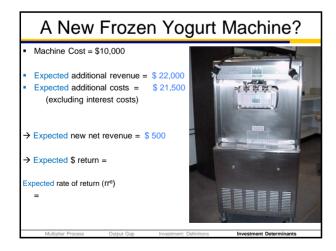


Changes in Equilibrium Any initial Δspending results in a much larger ΔΥ_E 1) Δspending → Δoutput 2) Δoutput → ΔΥ 3) ΔΥ → Δspending ■ Definition of multiplier is ■ What's in the <u>formula</u> for the multiplier?









Profit-max strategy for buying capital Compare Expected rate of return (rre) and interest rate (i) What's an interest rate? From perspective of a borrower: From perspective of a lender: And remember: savers are lenders Sometimes directly. Often indirectly.

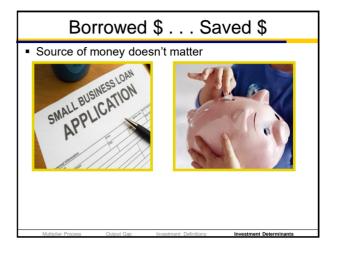
Profit-max strategy for buying capital

Compare

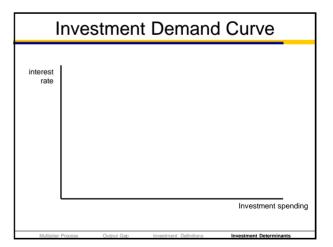
Expected rate of return (rre) and interest rate (i)

- If rre > i, then
- If rre < i, then
- Same strategy regardless of source of money

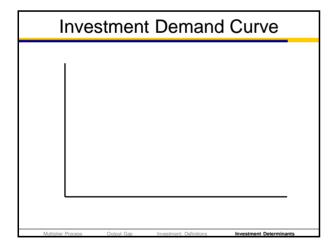
Multiplier Process Output Gap Investment: Definitions Investment Determinants

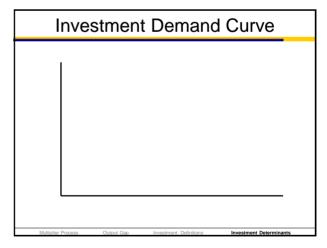


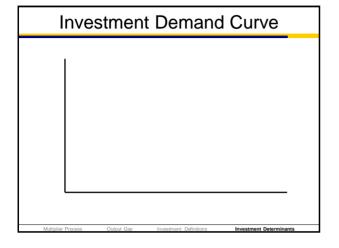
Investment Demand						
	Project	Cost	rr ^e			
	Α	\$10,000	14 %			
	В	\$5,000	10 %			
	C	\$8,000	4 %			
i = 2 %						
i = 8 %						
i = 12 %						
Multiplier Proce	ess Output Gap	Investment: Definit	ions Inves	stment Determinants		

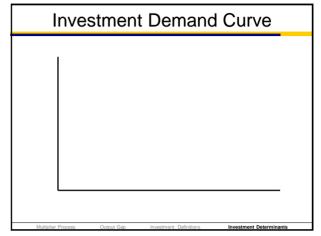


Investment depends on Interest Rates	Investment Demand Curve
Interest Rates (i) matter	
Expected rates of return matter	
Multiplier Process Output Gao Investment: Definitions Investment Determinants	Multiplier Process Output Gap Investment: Definitions Investment Determinants









Financial Crisis of 2008

- Def of a financial crisis: when "market failure" permeates financial markets
 - Disequilibrium: Lenders won't lend. No interest rate will clear market.
- Asymmetric information problems in financial markets
 - Adverse selection
 - Lenders have difficulty assessing riskiness of potential borrowers
 - Moral hazard
 - After signing contract, borrowers may change behavior, increasing risk of default
 - Solutions to asymmetric info problems enable markets to function

Multiplier Process Output Gap Investment: Definitions Investment Determinants

Investment depends on . . .

- Interest Rates (i) matter
- ↑ i → ↓ Investment
 - ψ i \rightarrow \uparrow Investment
- Expected rates of return (rre) matter
 - ↑ rre → ↑ Investment
 - ↓ rre → ↓ Investment
- Credit availability manifestation of a credit (financial) crisis matters
 - \uparrow Credit availability \rightarrow \uparrow Investment
 - ↓ Credit availability → ↓ Investment

STAR DATE OF THE STAR DESCRIPTION OF THE STAR DESCRIPT