Krugman's Economics for AP		
KRUGMAN'S	🗲 Section 45.1 🌩 Go to page: Go to chapter	?
ECONOMICS for AP* Margaret Ray and David Anderson Adapted from Economics, Second Edition	A Structure for Macroeconomic Analysis	Printed Page 443 [Notes/Highlighting]
by Paul Krugman and Robin Wells Zachary McNamara [Logout] Settings Notes Glossary Search:	In our study of macroeconomics we have seen questions about the macroeconomy take many different forms. No matter what the specific question, most macroeconomic problems have the following components:	
8 The Open Economy: International Trade and Finance	 A starting point. To analyze any situation, you have to know where to start. 	
SECTION INTRODUCTION Module 41: Capital Flows and the	 A <i>pivotal event</i>. This might be a change in the economy or a policy response to the initial situation. 	
Balance of Payments 41.1 Capital Flows and the Balance of Payments	 Initial effects of the event. An event will generally have some initial, short-run effects. 	
 Module AP Review Module 42: The Foreign Exchange Market 42.1 The Role of the Exchange 	4) Secondary and long-run effects of the event. After the short-run effects run their course, there are typically secondary effects and the economy will move toward its long-run equilibrium.	
Rate Module 42 AP Review Module 43: Exchange Rate Policy	For example, you might be asked to consider the following scenario and answer the associated questions.	125
 43.1 Exchange Rate Policy Module 43 AP Review Module 44: Exchange Rates and Macroeconomic Policy 44.1 Exchange Rates and Macroeconomic Policy Module 44 AP Review 	Assume the U.S. economy is currently operating at an aggregate output level above potential output. Draw a correctly labeled graph showing aggregate demand, short-run aggregate supply, long-run aggregate supply, equilibrium output, and the aggregate price level. Now assume that the Federal Reserve conducts contractionary monetary policy. Identify the open-market operation the Fed would conduct, and draw a correctly labeled graph of the money	E
Module 45: Putting II All Together 45.1 A Structure for Macroeconomic Analysis The Starting Point	market to show the effect of the monetary policy on the nominal interest rate. Show and explain how the Fed's actions will affect equilibrium in the aggregate demand and supply graph you drew previously. Indicate the new aggregate price level on your graph.	How will the Fed's monetary policy change nominal interest rates? AP Photo/Mark Lennihan
The Pivotal Event The Initial Effect of the Event Secondary and Long-Run Effects of the Event 45.2 Analyzing Our Scenario	Assume Canada is the largest trading partner of the United States. Draw a correctly labeled graph of the foreign exchange market for the U.S. dollar showing how the change in the aggregate price levelyou indicate on your graph above will affect the foreign exchange market. What will happen to the value of the U.S. dollar relative to the Canadian dollar?	
Module 45 AP Review Section 8 Review Summary	How will the Federal Reserve's contractionary monetary policy affect the real interest rate in the United States? Explain.	
Key Terms Problems Self-Test Quiz	Taken as a whole, this scenario and the associated questions can seem overwhelming. Let's start by breaking down our analysis into four components.	
	1. The starting point	
	Assume the U.S. economy is currently operating at an aggregate output level above potential output.	
	2. The niveral event	

2. The pivotal event

Now assume that the Federal Reserve conducts contractionary monetary policy.

3. Initial effects of the event

Show and explain how the Fed's actions will affect equilibrium.

4. Secondary and long-run effects of the event

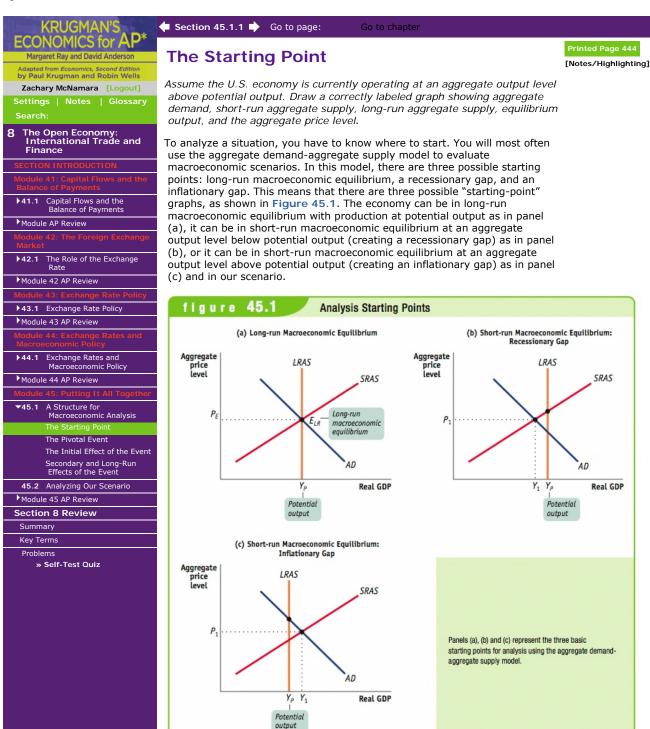
Assume Canada is the largest trading partner of the United States. What will happen to the value of the U.S. dollar relative to the Canadian dollar?

How will the Federal Reserve's contractionary monetary policy affect the real interest rate in the United States? Explain.

Now we are ready to look at each of the steps and untangle this scenario.

A Structure for Macroeconomic Analysis

http://ebooks.bfwpub.com/krugman_ap_econ.php[12/31/2013 4:24:24 PM]



http://ebooks.bfwpub.com/krugman_ap_econ.php[12/31/2013 4:25:08 PM]

The Starting Point

Krugman's Economics for AP	
KRUGMAN'S	👍 s
FCONOMICS for AP*	
Margaret Ray and David Anderson	T
Adapted from Economics, Second Edition by Paul Krugman and Robin Wells	
Zachary McNamara [Logout]	Νοι
Settings Notes Glossary	po
Search:	It is
8 The Open Economy: International Trade and Finance	int be ho
SECTION INTRODUCTION	pri
Module 41: Capital Flows and the	cor
Balance of Payments 41.1 Capital Flows and the	cha
▶ 41.1 Capital Flows and the Balance of Payments	do
Module AP Review	Wh
Module 42: The Foreign Exchange Market	car
▶ 42.1 The Role of the Exchange	fac fac
Rate	rel
Module 42 AP Review	eve
▶43.1 Exchange Rate Policy	jus
Module 43 AP Review	lar at
Module 44: Exchange Rates and	
Macroeconomic Policy ↓44.1 Exchange Rates and	t
Macroeconomic Policy	N
Module 44 AP Review	IV
Module 45: Putting It All Together	
▼45.1 A Structure for Macroeconomic Analysis	A
The Starting Point	E
The Pivotal Event The Initial Effect of the Event	W
Secondary and Long-Run	S
Effects of the Event	Fi
45.2 Analyzing Our Scenario Module 45 AP Review	N
Section 8 Review	In
Summary	In
Key Terms	
Problems	D
» Self-Test Quiz	
	In
	P
	Ta
	C
	N
	D
	In
	G

The Pivotal Event

Now assume that the Federal Reserve conducts contractionary monetary policy.

It is the events in a scenario that make it interesting. Perhaps a country goes into or recovers from a recession, inflation catches consumers off guard or becomes expected, consumers or businesses become more or less confident, holdings of money or wealth change, trading partners prosper or falter, or oil prices plummet or spike. The event can also be expansionary or contractionary monetary or fiscal policy. With the infinite number of possible changes in policy, politics, the economy, and markets around the world, don't expect to analyze a familiar scenario on the exam.

While it's impossible to foresee all of the scenarios you might encounter, we can group the determinants of change into a reasonably small set of major factors that influence macroeconomic models. **Table 45.1** matches major factors with the curves they affect. With these influences in mind, it is relatively easy to proceed through a problem by identifying how the given events affect these factors. Most hypothetical scenarios involve changes in just one or two major factors. Although the real world is more complex, it is largely the same factors that change—there are just more of them changing at once.

able **45.1**

Major Factors that Shift Curves in Each Model

	Aggregate Demand and Aggregate	Supply	
Aggregate Demand Curve	Short-run Aggregate Supply Curve	Long-run Aggregate Supply Curve	
Expectations	Commodity prices	Productivity	
Wealth	Nominal wages	Physical capital	
Size of existing capital stock	Productivity	Human capital	
Fiscal and monetary policy	Business taxes	Technology	
Net Exports		Quantity of resources	
Interest rates			
Investment spending			
	Supply and Demand		
Demand Curve	Supply Curve		
Income			
Prices of substitutes and comp	plements Prices of subst	Prices of substitutes and complements in production	
Tastes	Technology		
Consumer expectations	Producer expe	Producer expectations	
Number of consumers	Number of pro	ducers	
	Loanable Funds Market		
Demand Curve	Supply Curve		
Investment opportunities	Private saving	Private saving behavior	
Government borrowing	Capital inflows	Capital inflows	
	Money Market		
Demand Curve	Supply Curve	Supply Curve	
Aggregate price level	Set by the Fed	Set by the Federal Reserve	
Real GDP			
Technology (related to money	market)		
Institutions (related to money i	market)		
	Foreign Exchange Market		
Demand	Supply		
Foreigners' purchases of domi	estic Domestic resid	lents' purchases of foreign	
Goods	Goods		
Services	Services		
Assets	Assets		

[Open in Supplemental Window]

As shown in Table 45.1, many curves are shifted by

Printed Page 444
[Notes/Highlighting]

changes in only two or three major factors. Even for the aggregate demand curve, which has the largest number of associated factors, you can simplify the task further by asking yourself, "Does the event influence consumer spending, investment spending, government spending, or net exports?" If so, aggregate demand shifts. A shift of the long-run aggregate supply curve is caused only by events that affect labor productivity or the number of workers.

In the supply and demand model there are five major factors that shift the demand curve and five major factors that shift the supply curve. Most examples using this model will represent a change in one of these ten factors. The loanable funds market, money market, and foreign



You've seen the speech, now, how would you analyze the proposed policy? AP Photo/Gus Ruelas

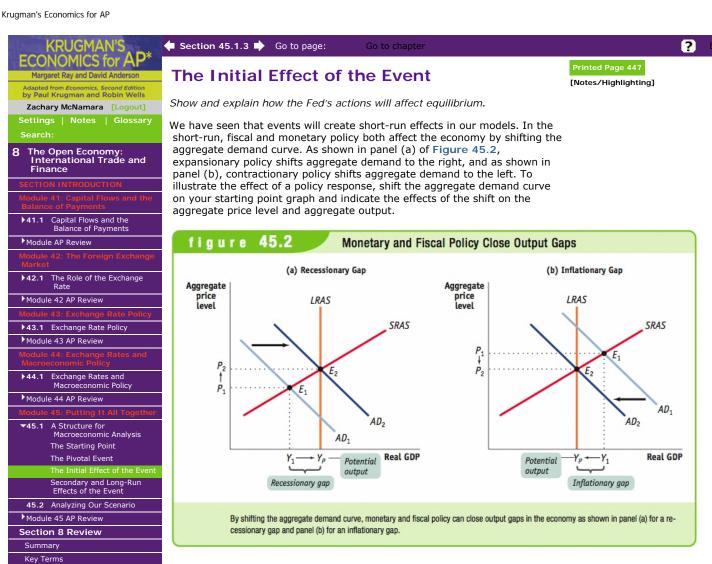
exchange market have their own clearly identified factors that affect supply or demand. With this information you can link specific events to relevant factors in the models to see what changes will occur. Remember that having correctly labeled axes on your graphs is crucial to a correct analysis.

Often, as in our scenario, the event is a policy response to an undesirable starting point such as a recessionary or inflationary gap. Expansionary policy is used to combat a recession, and contractionary policy is used to combat inflationary pressures. To begin analyzing a policy response, you need to fully understand how the Federal Reserve can implement each type of monetary policy (e.g., increase or decrease the money supply) and how that policy eventually affects the economy. You also need to understand how the government can implement expansionary or contractionary fiscal policy by raising or lowering taxes or government spending.

🖨 The Pivotal Event 🕩

Problems

» Self-Test Quiz



The Initial Effect of the Event

Krugman's Economics for AP			
KRUGMAN'S ECONOMICS for AP*	Section 45.1.4		
Adapted from Economics, Second Edition by Paul Krugman and Robin Wells	Seconda Event		
Zachary McNamara [Logout]			
Settings Notes Glossary Search:	Assume Canada happen to the		
8 The Open Economy: International Trade and Finance	How will the Fe interest rate in		
SECTION INTRODUCTION	Secondary Eff		
Module 41: Capital Flows and the Balance of Payments	there will be se equilibrium aft		
▶41.1 Capital Flows and the Balance of Payments	equilibrium are		
Module AP Review	We have seen t created by inap from long-run		
Module 42: The Foreign Exchange Market			
♦42.1 The Role of the Exchange Rate	the absence of through change		
Module 42 AP Review	nominal wage macroeconomi		
Module 43: Exchange Rate Policy			
▶43.1 Exchange Rate Policy	If the short-run level or real int open economy affected as a re level decrease, imports, causir		
Module 43 AP Review			
Module 44: Exchange Rates and Macroeconomic Policy			
▶ 44.1 Exchange Rates and Macroeconomic Policy			
Module 44 AP Review	exchange marl		
Module 45: Putting It All Together	through chang		
▼45.1 A Structure for Macroeconomic Analysis	rate changes a		
The Starting Point	exports caused effects act to r		
The Pivotal Event			
The Initial Effect of the Event	Long-run Effe		
Secondary and Long-Run Effects of the Event	the long run, o		
45.2 Analyzing Our Scenario	fiscal policy aff spending that I "crowd out" pr		
Module 45 AP Review			
Section 8 Review	increased dem investment spe demand. Of co		
Summary			
Key Terms			
Problems	that would lead		
» Self-Test Quiz			

ry and Long-Run Effects of the

Go to page:

la is the largest trading partner of the United States. What will value of the U.S. dollar relative to the Canadian dollar?

ederal Reserve's contractionary monetary policy affect the real n the United States? Explain.

fects In addition to the initial, short-run effects of any event, econdary effects and the economy will move to its long-run ter the short-run effects run their course.

that negative or positive demand shocks (including those ppropriate monetary or fiscal policy) move the economy away macroeconomic equilibrium. As explained in Module 18, in policy responses, such events will eventually be offset es in short-run aggregate supply resulting from changes in rates. This will move the economy back to long-run ic equilibrium.

n effects of an action result in changes in the aggregate price terest rate, there will also be secondary effects throughout the /. International capital flows and international trade will be esult of the initial effects experienced in the economy. A price , as in our scenario, will encourage exports and discourage ng an appreciation in the domestic currency on the foreign ket. A change in the interest rate affects aggregate demand es in investment spending and consumer spending. Interest also affect aggregate demand through changes in imports or d by currency appreciation and depreciation. These secondary einforce the effects of monetary policy.

ects While deviations from potential output are ironed out in other effects remain. For example, in the long run the use of fects the federal budget. Changes in taxes or government lead to budget deficits (and increased federal debt) can rivate investment spending in the long run. The government's hand for loanable funds drives up the interest rate, decreases ending, and partially offsets the initial increase in aggregate ourse, the deficit could be addressed by printing money, but d to problems with inflation in the long run.

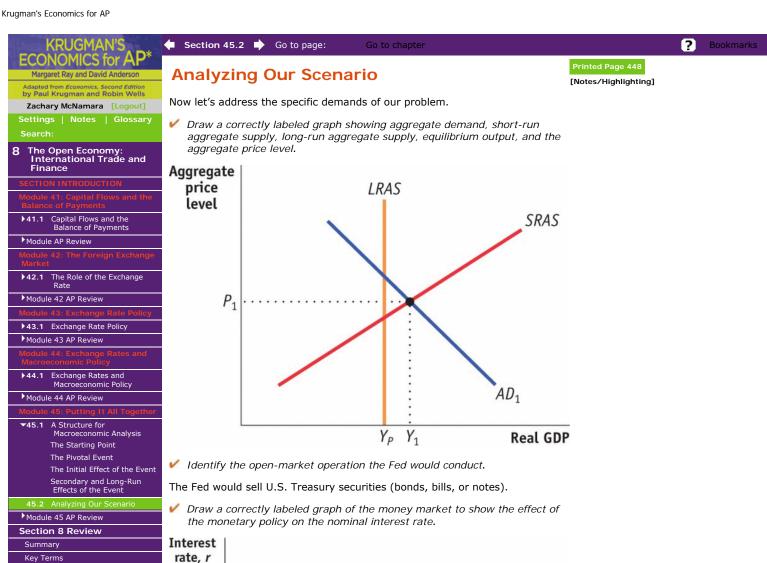
We know that in the long run, monetary policy affects only the aggregate price level, not real GDP. Because money is neutral, changes in the money supply have no effect on the real economy. The aggregate price level and nominal values will be affected by the same proportion, leaving real values (including the real interest rate as mentioned in our scenario) unchanged.

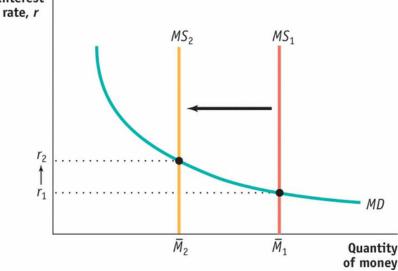
🖨 Secondary and Long-Run Effects of the Ev... 📫

[Notes/Highlighting]

Problems

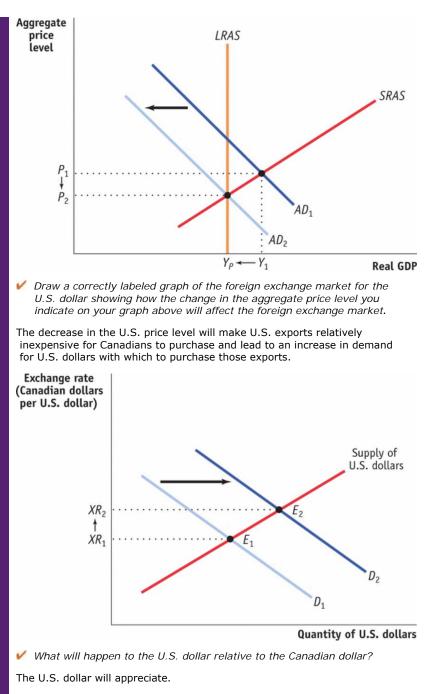
» Self-Test Quiz





Show and explain how the Fed's actions will affect equilibrium in the aggregate demand and supply graph you drew previously. Indicate the new aggregate price level on your graph.

A higher interest rate will lead to decreased investment and consumer spending, decreasing aggregate demand. The equilibrium price level and real GDP will fall.



How will the Federal Reserve's contractionary monetary policy affect the real interest rate in the United States? Explain.

There will be no effect on the real interest rate in the long run because, due to the neutrality of money, changes in the money supply do not affect real values in the long run.

🖨 Analyzing Our Scenario 🖶

KRUGMAN'S ECONOMICS for AP*	두 SUMMARY 🗼 Go to page:	Go to chapter	
Margaret Ray and David Anderson			
Adapted from Economics, Second Edition by Paul Krugman and Robin Wells	Summary		
Zachary McNamara [Logout]	-		
Settings Notes Glossary Search:	1. A country's balance of payments accounts summarize its transactions with the rest of the world. The balance of payments on the current account, or the current account, includes the balance of payments on goods and services together with balances on factor income and transfers. The merchandise trade balance, or trade balance, is a frequently cited component of the balance of payments on goods and services. The balance of payments on the financial account, or the financial account, measures capital flows. By definition, the balance of payments on the current account plus the balance of payments on the financial account is		
8 The Open Economy: International Trade and Finance			
SECTION INTRODUCTION Module 41: Capital Flows and the			
Balance of Payments			
41.1 Capital Flows and the Balance of Payments	zero.	e of payments of the mancial account is	
Module AP Review			
Module 42: The Foreign Exchange Market	Capital flows respond to international differences in interest rates and other rates of return; they can be usefully analyzed using an international		
▶42.1 The Role of the Exchange Rate	version of the loanable funds model, which shows how a country where the interest rate would be low in the absence of capital flows sends funds to a		
Module 42 AP Review	country where the interest rate would be high in the absence of capital		
Module 43: Exchange Rate Policy		ints of capital flows are international	
▶43.1 Exchange Rate Policy	differences in savings and oppor	rtunities for investment spending.	
Module 43 AP Review	 Currencies are traded in the foreign exchange market; the prices at which they are traded are exchange rates. When a currency rises against 		
▶44.1 Exchange Rates and Macroeconomic Policy	another currency, it appreciates ; when it falls, it depreciates . The equilibrium exchange rate matches the quantity of that currency supplied		
Module 44 AP Review	to the foreign exchange market	to the quantity demanded.	
Module 45: Putting It All Together	4. To correct for international dif	ferences in inflation rates, economists	
▶45.1 A Structure for Macroeconomic Analysis		, which multiply the exchange rate between cies by the ratio of the countries' price	
45.2 Analyzing Our Scenario		onds only to changes in the real exchange	
Module 45 AP Review		rate. Purchasing power parity is the	
Section 8 Review Summary		ost of a basket of goods and services equal	
Key Terms		ng power parity and the nominal exchange asing power parity is a good predictor of	
Problems	actual changes in the nominal e		
» Self-Test Quiz	E Countries adapt different and		
	exchange rate policy. The main government takes action to kee floating exchange rates, whe Countries can fix exchange rates which requires them to hold for buy any surplus of their currenc policies, especially monetary po	hange rate regimes, rules governing types are fixed exchange rates, where the p the exchange rate at a target level, and re the exchange rate is free to fluctuate. s using exchange market intervention, eign exchange reserves that they use to y. Alternatively, they can change domestic licy, to shift the demand and supply curves Finally, they can use foreign exchange	
	stable exchange rates, but the p costs. Exchange market interver	dilemma: there are economic payoffs to policies used to fix the exchange rate have ntion requires large reserves, and exchange potery policy is used to help fix the to use for domestic policy.	
		lways permanent commitments: countries	

nent commitments: countries with a fixed exchange rate sometimes engage in $\ensuremath{\text{devaluations}}$ or revaluations. In addition to helping eliminate a surplus of domestic currency on the foreign exchange market, a devaluation increases aggregate demand. Similarly, a revaluation reduces shortages of domestic currency and reduces aggregate demand.

8. Under floating exchange rates, expansionary monetary policy works in part through the exchange rate: cutting domestic interest rates leads to a depreciation, and through that to higher exports and lower imports, which increases aggregate demand. Contractionary monetary policy has the reverse effect.

9. The fact that one country's imports are another country's exports creates a link between the business cycles in different countries. Floating exchange rates, however, may reduce the strength of that link.

[Notes/Highlighting]