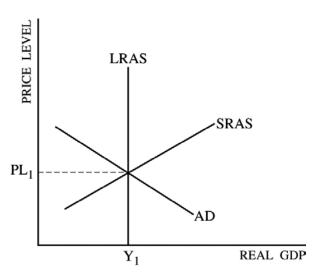
# AP® MACROECONOMICS 2013 SCORING GUIDELINES

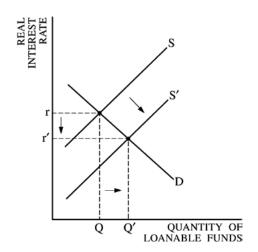
#### Question 1

**10 Points** (2 + 2 + 2 + 3 + 1)



## (a) 2 points:

- One point is earned for drawing a correctly labeled graph, showing AD, SRAS, and PL<sub>1</sub>.
- ullet One point is earned for drawing a vertical LRAS curve at  $Y_1$  that is at the intersection of AD and SRAS.



### (b) 2 points:

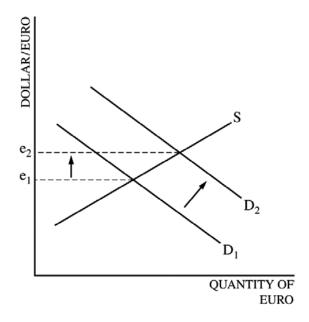
- One point is earned for drawing a correctly labeled graph of the loanable funds market.
- One point is earned for shifting the supply curve to the right and showing a decrease in real interest rate.

#### (c) 2 points:

- One point is earned for stating that interest-sensitive expenditures will increase.
- One point is earned for stating that the economic growth rate will increase because higher investment will increase capital formation.

# AP® MACROECONOMICS 2013 SCORING GUIDELINES

## Question 1 (continued)

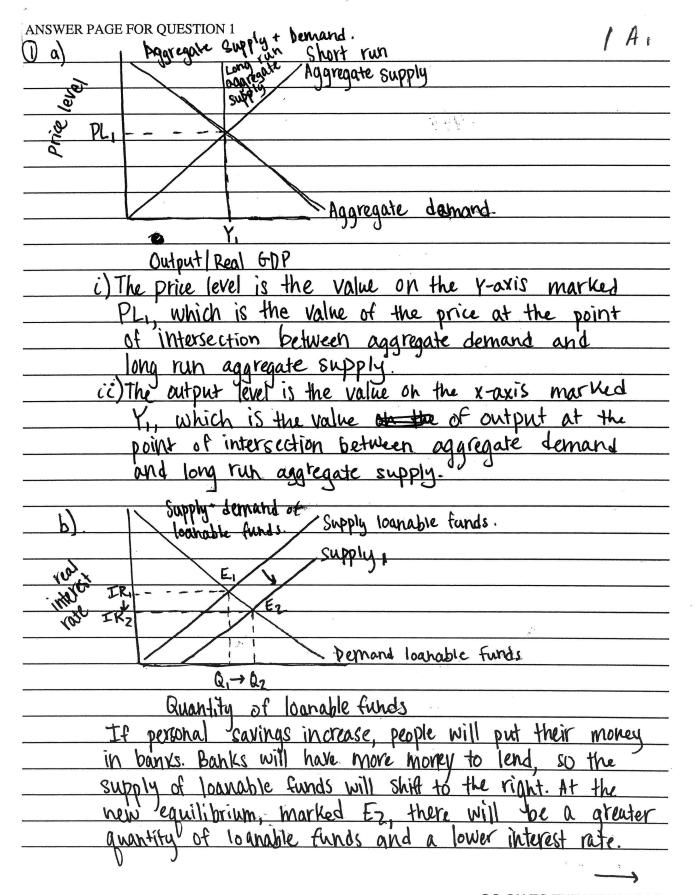


### (d) 3 points:

- One point is earned for drawing a correctly labeled graph of the foreign exchange market for the euro.
- One point is earned for shifting the demand curve to the right and showing an increase in the value of the euro.
- One point is earned for explaining that the demand for the euro increases because the higher real interest rate in the euro zone leads to higher returns for financial investments in the euro zone, attracting funds from the United States to the euro zone.

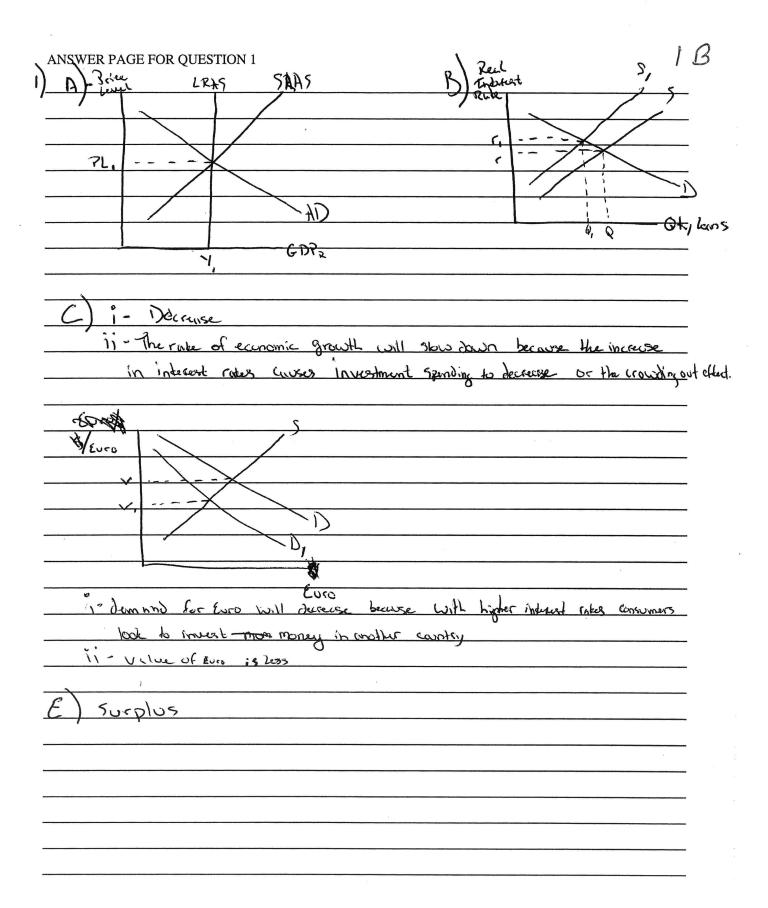
### (e) 1 point:

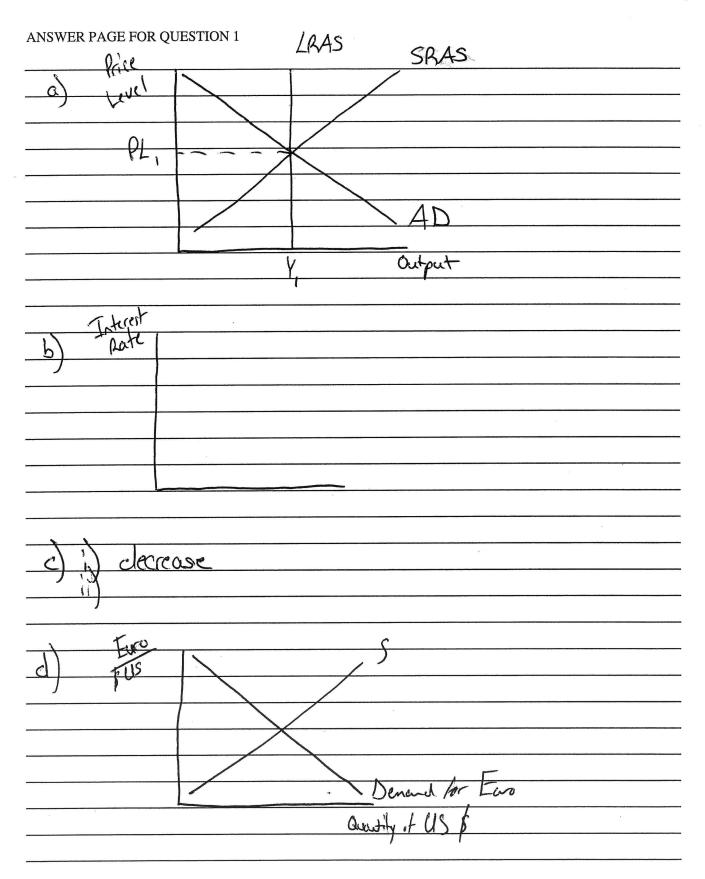
• One point is earned for stating that United States current account will be in surplus.



c)i) As indicated on the graph in part b, interest rates will
decrease when personal savings increase. Interest - sensitive
decrease when personal savings increase. Interest - sensitive expenditures will increase because the house holds and
firms can borrow money at a lower interest rate. It
will be 'cheaper' to borrow money. This increase can
be seen on the graph in part by where of Ez, owner
be seen on the graph in part b, where at Ez, agree the equilibrium quanity is higher than it was before
ii) The rate of economic growth will increase because investment
feuls growth. Firms will be able to purchase capital
ii) The rate of economic growth will increase because investment feuls growth. Firms will be able to purchase capital equiptment, which will mean workers will be more
productive, which will increase the growth rate.
forcian exchange market
d) foreign exchange market supply of euros
Charak Exz Ei
CHOR EXT
Demand,
Pernand of euros
Q, Q2.
anantity of euros
i) The demand for the euro will shift to the right
because people will want to invest their money in
Europe, because they will get a higher rate of
return on their investments. People will demand more
euros so they can invest in son European assets.
ii). The value of the euro relative to the dollar will
rise, which means that the euro will appreciate
compared to the dollar. As demand is shifted to
the right, the new equilibrium has a higher
exchange rate. When people exchange their euros
for dollars, they are also increasing the supply
7 77

• •
of dollars, which will lower the exchange rate for
dollars.
~ ·
e) When the value of the euro appreciates compared to the dollar, the United States current account will change to a surplus. American goods will seem cheaper to Europeans, so they will buy more goods, which means that American exports will rise. We will import fewer European goods because they will seem more expensive. Therefore, the current accounts will run a surplus.
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to a surplus. American goods will seem cheaper to
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that American exports will rise. We will import fewer
European goods because thou will seem more expensive.
therefore the current accounts will run a surplus,
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additional page for answering question 1  di) demand for the ewo will increase
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e) déficit
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GO ON TO THE NEXT PAGE.

# AP® MACROECONOMICS 2013 SCORING COMMENTARY

#### **Question 1**

#### Overview

Part (a) asked the students to draw a correctly labeled graph of the Aggregate Demand/Aggregate Supply model, test their ability to determine and show the full employment level of output. Part (b) asked the students to draw a correctly labeled graph of the loanable funds market and to show the impact of increased savings on the real interest rate. Part (c) tests the students' ability to determine the impact of a change in the real interest rate on interest-sensitive expenditures and economic growth. Part (d) asked the students to draw a correctly labeled graph of the foreign exchange market and to show the impact of higher real interest rates on the exchange rate. Part (e) tests the students' ability to determine the impact of a change in the exchange rate on the current account.

Sample: 1A Score: 10

The student answers all parts of the question correctly and so earned 10 points.

Sample: 1B Score: 5

The student earned 2 points in part (a) for drawing a correctly labeled AD/AS graph. The student earned 1 point in part (b) for drawing a correctly labeled graph of the loanable funds market. Since the student's conclusion of "decrease" in part (c)(i) is consistent with the real interest rate change in part (b)(ii), the student earned 1 point. The student earned 1 point in part (d) for drawing a correctly labeled graph of the foreign exchange market for the euro. The student's answer to part (e) is inconsistent with the exchange rate change in part (d) and therefore did not earn the point.

Sample: 1C Score: 2

The student earned 2 points in part (a) for drawing a correctly labeled AD/AS graph.