# AP® MACROECONOMICS 2016 SCORING GUIDELINES

#### Question 3

## **5 points** (1+1+2+1)

## (a) 1 point:

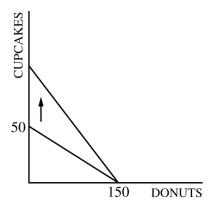
• One point is earned for stating that John has the absolute advantage in producing donuts and for explaining that John can produce more donuts than Erica in one day (200>150).

## (b) 1 point:

• One point is earned for stating that Erica has a comparative advantage in producing donuts and for explaining that Erica's opportunity cost of producing one donut (1/3 of a cupcake) is less than John's opportunity cost of producing one donut (1/2 of a cupcake).

### (c) 2 points:

- One point is earned for indicating that John will benefit from specialization and trade.
- One point is earned for indicating that Erica will not benefit from specialization and trade.



#### (d) 1 point:

• One point is earned for drawing a correctly labeled graph of Erica's production possibilities curve, before the technology change, and for rotating the production possibilities curve outward showing greater production of cupcakes after the technology change.

a) John has the absolute advantage in producing
Donuts because he can produce 200 donuts in
one day compared to Erica's 150 donuts in one day.
b) Erica has the comparative advantage in producing
donuts because in order for her to produce
I donut she proportunity gives up the opportunity
to produce 1/3 of a cupcake, but in order for
John to produce I donut he has to give up the
opportunity of producing half of a cupctake.
c) John would produce capcakes and Erica would
produce donuts
i) Specialization and trade are beneficial to John
ii) Specialization and trade are not beneficial to Erica
d) PPC for Erica
Cupcakes
1
1 echnology lechnology
technology
change
Donuts

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ANSWER PAGE FOR QUESTION 3
a) John has the absolute advantage in producing donutes
because he can produce the most donnts with the least
inputs.
b) Erica has the comparative advantage in producing donuts
because her opportunity cost for one donut is 1/3 cuprakes
Sections her opportunity cost for one donut is 1/3 cupcakes while John's is 1/2 cupcakes, so she has the lover
poportunita cont
opportunity cost.
(1) Suggistion and trade in not beneficial for John
because his opportunity cost for one donut is higher than
Erica's.
is loviding the and toute it hereficial for frice beaute
she can afford to give one capathe and in turn receive
Con afford to give the capacitic and the term received
tour donuts.
a) 150+
wowledge
100 -
50
25
25 50 100 125 DONATS
25 50 100 125 DONATS

John has the absolute advantage in producing don'ts	1)
because John is able to produce 200 donuts in	
one day, while Error is only able to produce 150	1.
John, also has the comparative advantage in	
pratang timas, because he can produce so me	re_
donn's their Errica in one feet	
specification and trade nealt net be beneficial	
to because he at profiles Erica on both	
formers and appares. Specialization and	
brade want be bereminal to Erica because, she has	
a comparative advantage in Dans, early can make use	
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# AP® MACROECONOMICS 2016 SCORING COMMENTARY

### Question 3

#### Overview

This question tested students' knowledge of absolute advantage, comparative advantage, and exchange. From a table of production capabilities of two individuals for two goods, students were asked in part (a) to explain who has the absolute advantage and in part (b) to explain who has the comparative advantage. Part (c) provided a rate at which the two goods can be exchanged and asked whether each individual can gain from exchange. Part (d) required students to show the effect of a change in technology for one good on the production possibilities curve of one individual.

Sample: 3A Score: 5

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

Sample: 3B Score: 3

The student did not earn 2 points in part (c) for incorrectly indicating that specialization and trade are not beneficial to John but beneficial to Erica.

Sample: 3C Score: 1

The student earned 1 point in part (a) for correctly identifying that John has the absolute advantage in the production of donuts and for explaining that John is able to produce 200 donuts in one day while Erica is only able to produce 150 donuts in one day.