

2. The table below shows macroeconomic data for Country A.

Year	Nominal GDP	GDP Deflator	Population
2020	40,000	100	100
2021	88,000	200	110

(a) Calculate each of the following for Country A in year 2021. Show your work.

(i) Real GDP

(ii) Real GDP per capita

(b) Based solely on the data provided, has the standard of living for the average person in Country A increased, decreased, or stayed the same between 2020 and 2021 ? Explain.

(c) How would an increase in government spending on education affect economic growth in Country A? Explain.

(d) Assume that Country A produces consumer goods and capital goods. Draw a correctly labeled production possibilities curve for Country A, and show the effect of the increase in government spending on education on your graph.

Begin your response to this question at the top of a new page in the separate Free Response booklet and fill in the appropriate circle at the top of each page to indicate the question number.

3. The economy of Country Zeta is in long-run equilibrium; however, the government is concerned about the size of the national debt.
- (a) Identify one specific fiscal policy action the government could take to reduce the national debt.
 - (b) Draw a correctly labeled graph of the loanable funds market, and show the effect of the fiscal policy action identified in part (a) on the real interest rate.
 - (c) Based on the change in the real interest rate identified in part (b), what will happen to each of the following?
 - (i) Aggregate demand in the short run. Explain.
 - (ii) Potential real output. Explain.

Begin your response to this question at the top of a new page in the separate Free Response booklet and fill in the appropriate circle at the top of each page to indicate the question number.

Question 2: Short**5 points**

- (a) Calculate Country A's real GDP in 2021 as 44,000, calculate Country A's real GDP per capita in 2021 as 400, and show your work. **1 point**

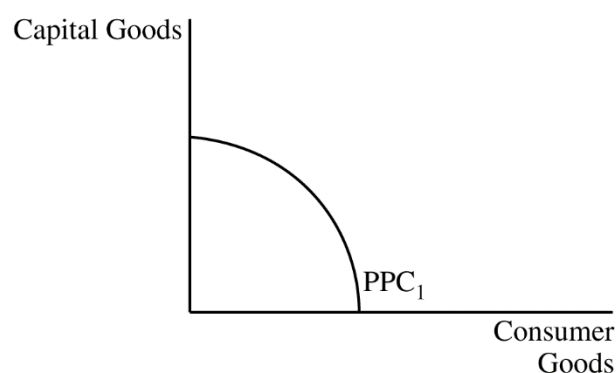
$$\text{Real GDP} = \frac{88,000}{200} \times 100 = 44,000$$

$$\text{Real GDP per Capita} = \frac{44,000}{110} = 400$$

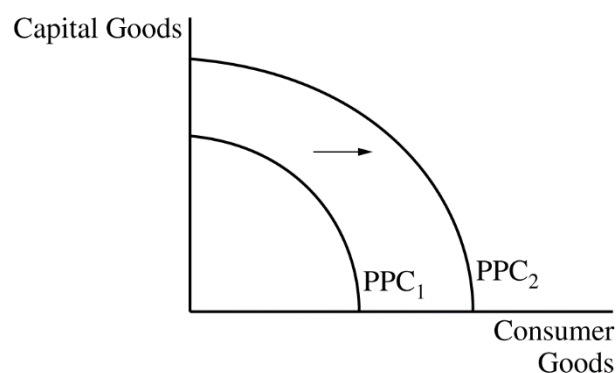
- (b) State that the standard of living for the average person in Country A has stayed the same from 2020 to 2021 and explain that real GDP per capita in Country A did not change from 2020 to 2021. **1 point**

- (c) State that an increase in government spending on education will promote economic growth in Country A and explain that human capital will increase and the labor force will become more productive. **1 point**

- (d) Draw a correctly labeled graph of the production possibilities curve. **1 point**



- For the second point, the graph must show an outward shift of the production possibilities curve. **1 point**

**Total for part (d) 2 points****Total for question 2 5 points**