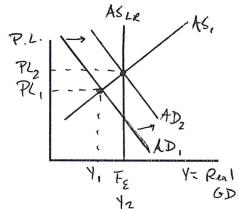
AP Macroeconomics - Changes in Aggregate Demand and Aggregate Supply

Directions: Graph the following scenarios, identify what causes the change, and specify what

ceteris paribus) PL = Price Level Y= Real GDP

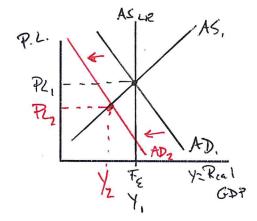
1. The economy is currently in recession. European wage rates increase by 15%.



AD: 1

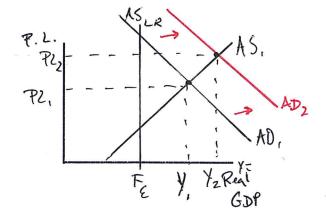
P) 1

2. The economy is currently at full employment. The government increases personal income taxes by \$200 billion.

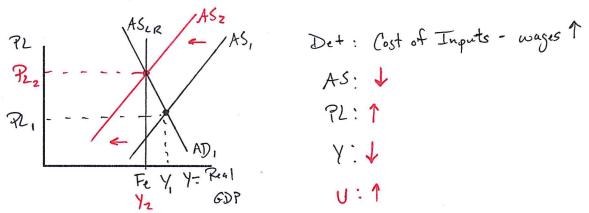


PL: 1

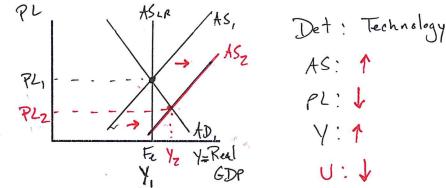
3. The economy is currently at macroeconomic equilibrium above full employment. Japan experiences high rates of inflation.



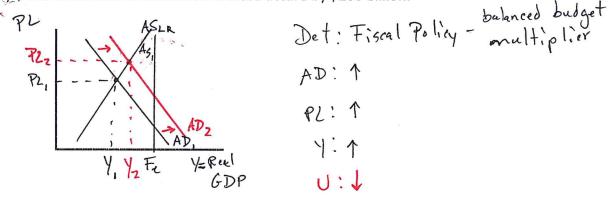
4. The economy is currently operating beyond potential GDP. Congress initiates legislation that increases minimum wage by 10%.



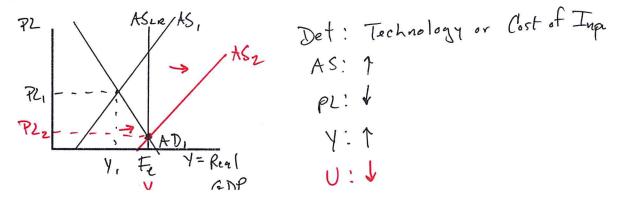
5. The economy is currently at macroeconomic equilibrium at potential GDP. A new technology increases production by 20%.



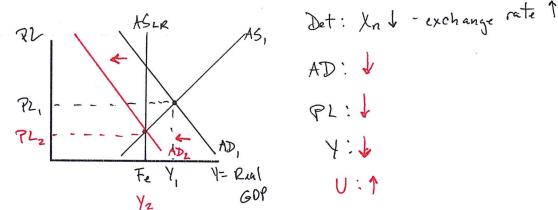
6. The economy is currently below full employment output. The government increases taxes by \$200 billion and investment in infrastructure by \$200 billion.



7. Economy is experiencing high rates of unemployment. An alternative energy source is discovered.



8. The economy is currently experiencing an inflationary gap. The exchange rate for the US dollar increases dramatically.



Directions: Answer the following questions utilizing the given information to determine the multiplier and change in real GDP.

1. The MPC is .75. Government increases spending by \$100 million.

multiplier =
$$\frac{1}{1-.75}$$
 = 4

AGDP = $\Delta G \# multiplier$
 $400 = 100 \times 4$

2. The MPS is .2. Income taxes are increased by \$500 million.

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multiplier
$$= \frac{1}{MPS}$$
 $= \frac{1}{.2} = 5$
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A6DP = (AT x MPC) x multiplier

 $= \frac{1}{.2} = 5$
 $= \frac{1}{.2} = 5$

3. The MPC is .9. Businesses increase investment by \$200 mi

multiplier =
$$\frac{1}{1-MPC}$$

$$= \frac{1}{1-MPC}$$

$$= 1-.9 = 10$$

$$= 10$$

$$= 10$$

$$= 10$$

$$= 10$$

$$= 10$$

$$= 10$$

$$= 10$$

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$$= 10$$

4. The MPC is .8. The government increase spending by \$100 million and taxes by \$100 million.

million.

Multiplier =
$$\frac{1}{1-mpc}$$
 $= \frac{1}{1-.8}$
 $= \frac{1}{.2} = 5$

AGDP = AG x multiplier

 $= \frac{1}{100 \times 5^{-}}$
 $= \frac{1}{100 \times 5^{-}}$

5. Calculate the MPC, MPS, and change in Real GDP. US economy experiences a change in income in \$100 billion, and consumption changes by \$50 billion. Government decreases personal income taxes by \$100 million.

MPC-
$$\Delta C$$

MPC+MPS=1

 $AGOP = (\Delta T \times MPC) \times multiplier$
 ΔY
 $AGOP = (\Delta T \times MPC) \times multiplier$
 $AGOP = (\Delta T \times MPC)$