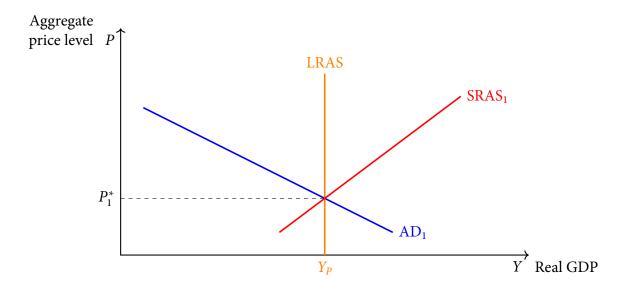
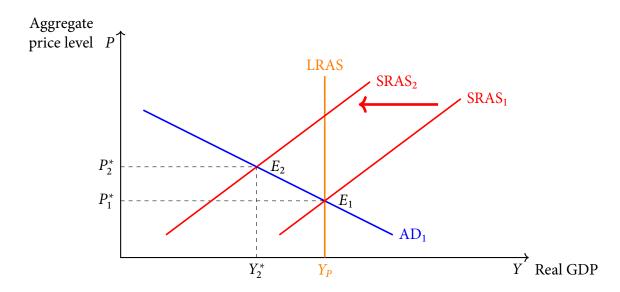
Assignment 10 Solutions

Suppose that the U.S. economy is initially in long-run equilibrium, producing its potential output Y_P , as depicted directly below.

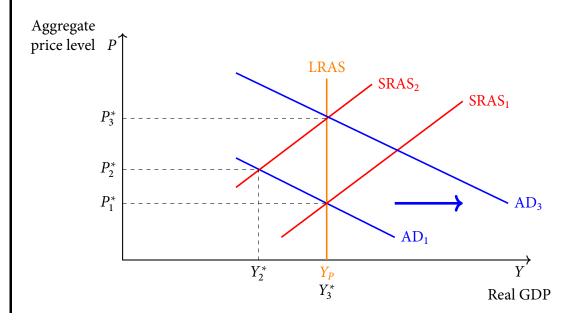


A multinational effort to sanction Russian oil and natural gas results in a negative shock to short-run aggregate supply from $SRAS_1$ to $SRAS_2$ as depicted below. U.S. economic output falls from Y_P to Y_2^* , and the aggregate price level rises from P_1^* to P_2^* . This results in a period of *stagflation*—lower economic output coupled with inflation.



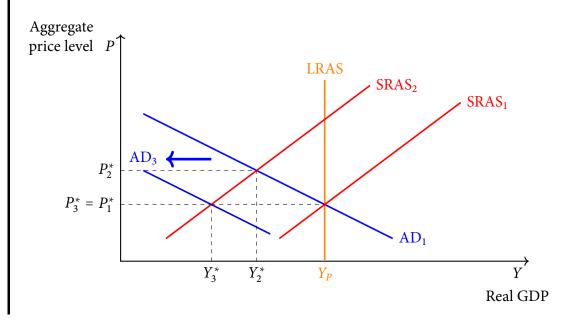
1. Please illustrate how fiscal policy could be used to maintain economic growth. Hint: Reproduce the second graph here. Illustrate a change in fiscal policy that restores output to Y_P .

To maintain economic growth, we would want to achieve actual output equal to potential output. Thus we would want to shift the AD curve until Y_P is achieved with SRAS₂.



2. Please illustrate how fiscal policy could be used to stabilize prices. Hint: Reproduce the second graph here. Illustrate a change in fiscal policy that restores the price level to P_1^* .

To stabilize the price level, we would want to achieve P equal to P_1^* . Thus we would want to shift the AD curve until P_1^* is achieved with SRAS₂.



3. Can fiscal policy remedy stagflation? Please explain with a complete sentence. Hint: Can a change in fiscal policy restore *both* output to Y_P *and* the price level to P_1^* ?

Stagflation refers to output stagnation coupled with inflation. We see stagflation at E_2 relative to E_1 because $Y_2^* < Y_P$ (output is decreased) and $P_2^* > P_1^*$ (the price level is increased).

In question 1, the proposed policy restores economic output $(Y_3^* = Y_P)$, but it worsens inflation $(P_3^* \gg P_1^*)$. In question 2, the proposed policy restores the price level $(P_3^* = P_1^*)$, but it further depresses output $(Y_3^* \ll Y_P)$.

We conclude that by shifting the aggregate demand curve, higher output can be achieved (but with higher prices) or lower prices can be achieved (but with lower inflation).

A shift of the aggregate demand curve cannot both lower the price level and also raise output.