

Sticky versus Flexible Wages and Prices

In macroeconomics there is both a short run and a long run. The short run is the time period in which at least one factor is fixed. For example, the price of inputs (hourly wages paid to labor and other unit resource prices) remains fixed, or sticky, in the short run. However, the price of firms' output in the product markets varies directly with the price level. Input prices remain fixed for many reasons, e.g., wage contracts, menu pricing, and delays in recognizing unanticipated inflation. The lag between changes in output prices and changes in input prices results in firms earning short-run profits when there is inflation or losses when there is deflation. The long run in macroeconomics is the period of time in which input prices adjust to changes in the overall price level.

With price level increases, product market prices increase while factor market prices remain fixed. Fixed input prices and higher output prices leads to profit. This profit provides firms with an incentive to increase production. Refer to Figure 3-4.1. Notice that as price level increases from PL_1 to PL_2 that real gross domestic product (GDP) increases from Y_1 to Y_2 .

The opposite would occur if product market prices fall with a decrease in the price level. Firms experience losses when input prices remain high and output prices decrease. The losses result in a decrease in production which leads to a decrease in real GDP.

The result of firms varying their production directly with changes in the price level is an upward sloping AS curve in the short run. Hence, in the short run, the level of real GDP is directly related to the price level. Figure 3-4.2 illustrates the SRAS.



Figure 3-4.1
Price Level and Real GDP

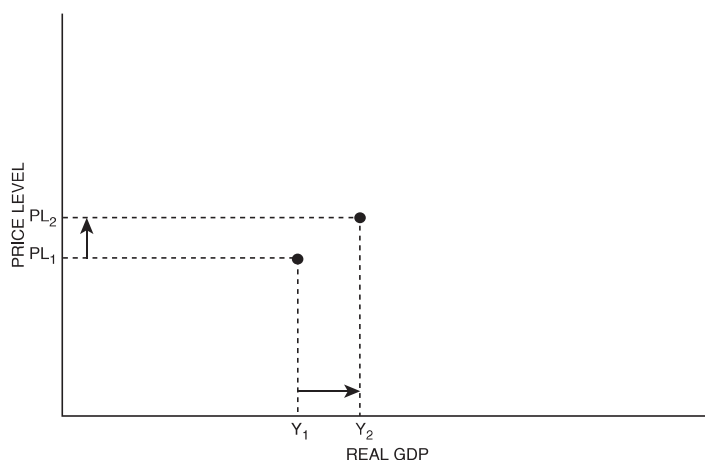
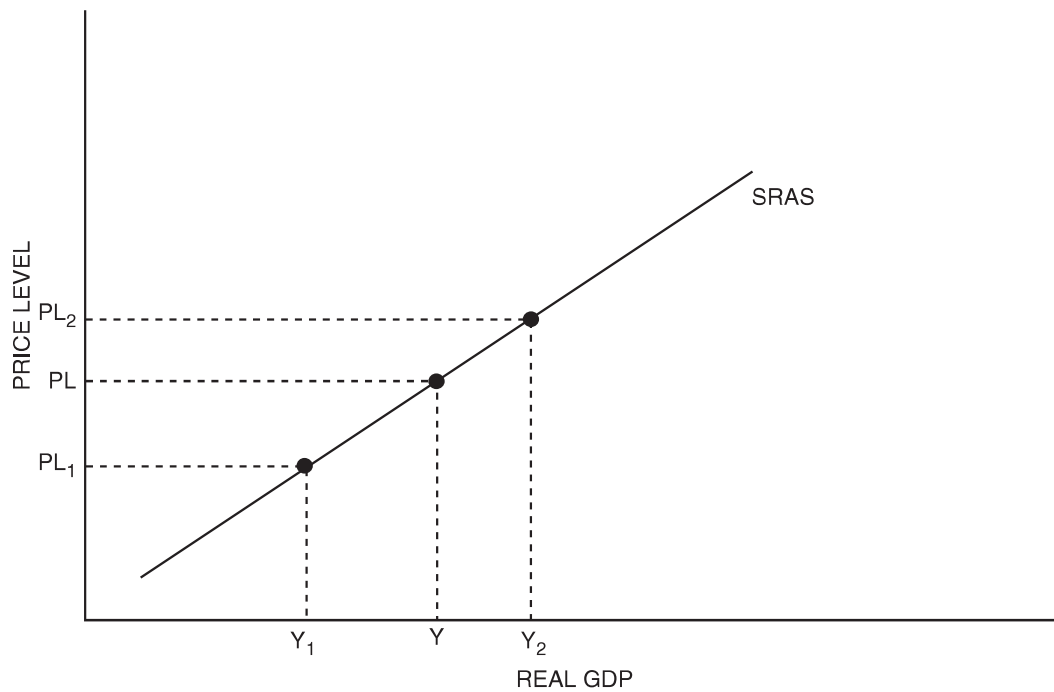




Figure 3-4.2

Short-Run Aggregate Supply Curve



1. Identify at least two reasons that input prices remain fixed in the short run.
2. Explain why firms' profits increase when the price level increases in the short run.
3. Would firms have an incentive to change their level of production if input prices adjusted immediately to output price changes? Why?
4. Review your answers to (2) and (3). Assume that input prices are not fixed, but that they change directly with output prices. If firms are initially producing output Y_1 as seen in the graph below, then an increase in the price level from PL_1 to PL_2 will have what effect on real GDP? Illustrate the relationship between price level and real GDP in the long run, and label it LRAS for long-run aggregate supply.

