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### Learning Objectives

1. Explain why an exogenous change in the price level shifts the AE curve and changes the equilibrium level of real GDP.
2. Derive the AD curve and explain why it shifts.
3. Explain the meaning of the AS curve and why it shifts when technology or factor prices change.
4. Define macroeconomic equilibrium.
5. Explain the effects of aggregate demand and aggregate supply shocks on real GDP and the price level.

AD-AS short run

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## The Demand Side of the Economy

### Shifts in the AE Curve

Consider an exogenous change in the price level,  $P$ . What happens to equilibrium GDP?

An increase in  $P$  reduces the real value of money held by the private sector. A fall in  $P$  raises the real value of money holdings.

Changes in  $P$  also affect the wealth of bondholders and bond issuers, but because the changes offset each other, there is no change in the aggregate wealth.

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In summary, an increase in  $P$  reduces private-sector wealth and leads to a fall in desired consumption — this implies a downward shift in the  $AE$  curve.

Conversely, a fall in  $P$  increases private-sector wealth and leads to an increase in desired consumption — this implies an upward shift in the  $AE$  curve.

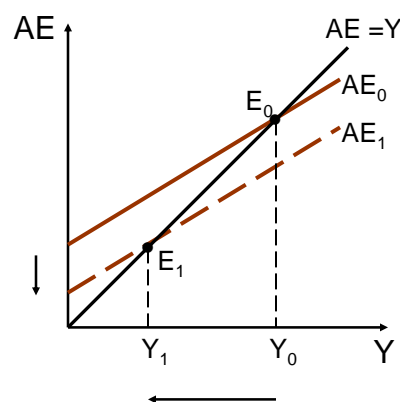
There is also an effect on net exports:

- A rise in  $P$  (with unchanged foreign prices) shifts the  $NX$  function downward — this causes a further downward shift in the  $AE$  curve. The reverse will occur after a fall in  $P$ .

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### Changes in Equilibrium GDP



An increase in  $P$  reduces private-sector wealth and therefore reduces desired aggregate expenditure.

This causes the  $AE$  curve to shift down, reducing the equilibrium level of real GDP.

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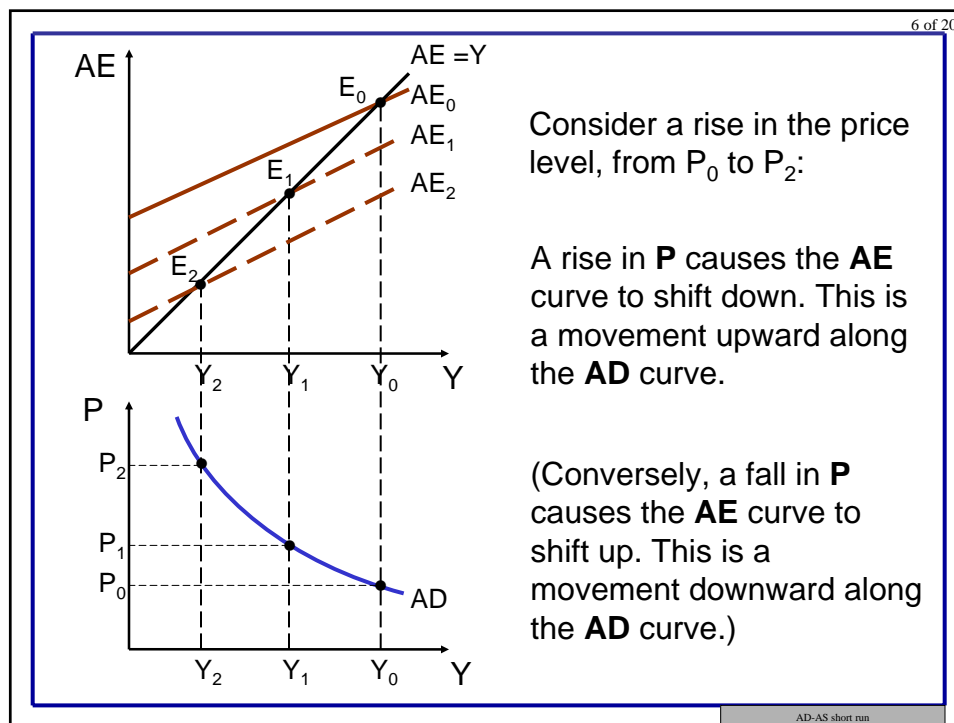
## The Aggregate Demand Curve

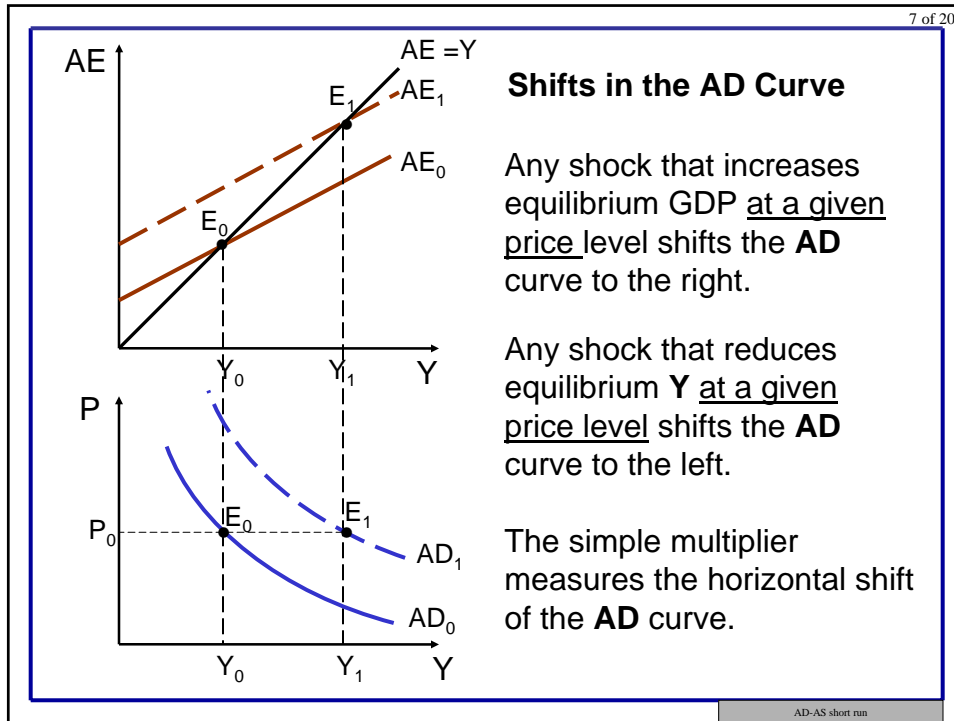
The aggregate demand (**AD**) curve relates equilibrium real GDP to the price level.

For any given price level, the **AD** curve shows the level of real GDP for which desired aggregate expenditure equals actual GDP.

Changes in the price level that cause shifts in the **AE** curve cause movements along the **AD** curve.

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**The Supply Side of the Economy**

**The Aggregate Supply Curve**

The aggregate supply (**AS**) curve relates the price level to the quantity of output that firms would like to produce and sell.

The **AS** curve is drawn on the assumption that technology and factor prices remain constant.

AD-AS short run

