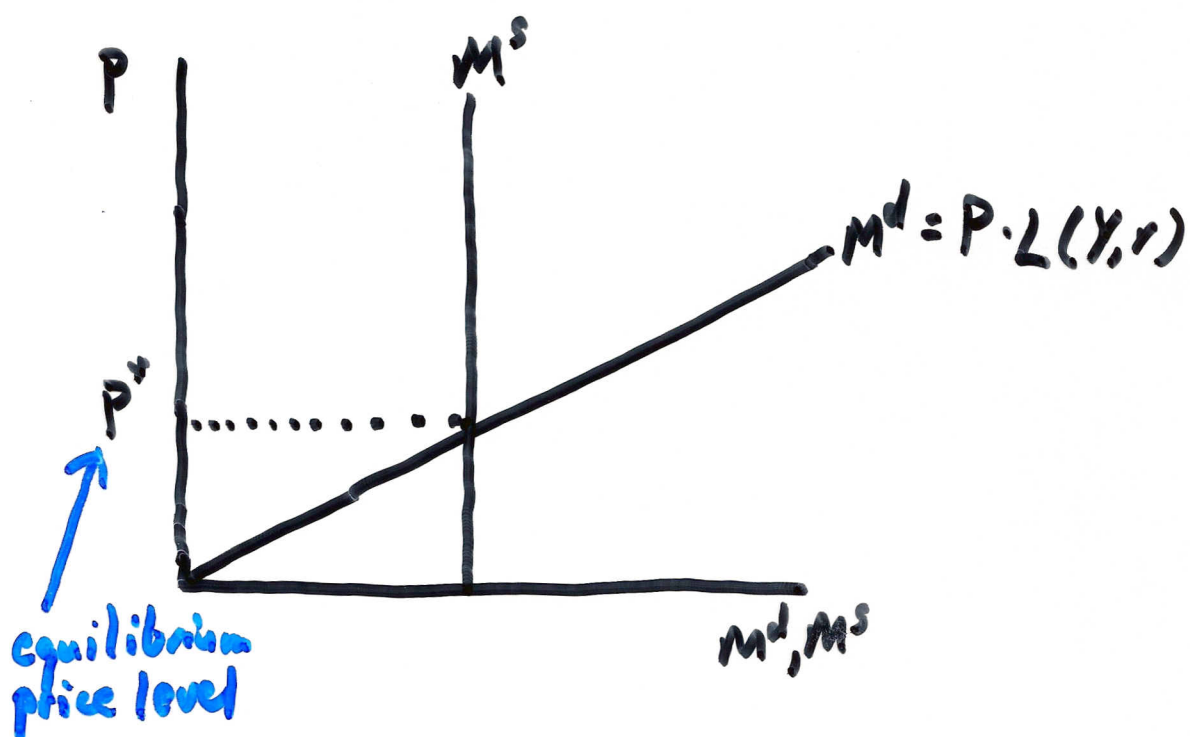


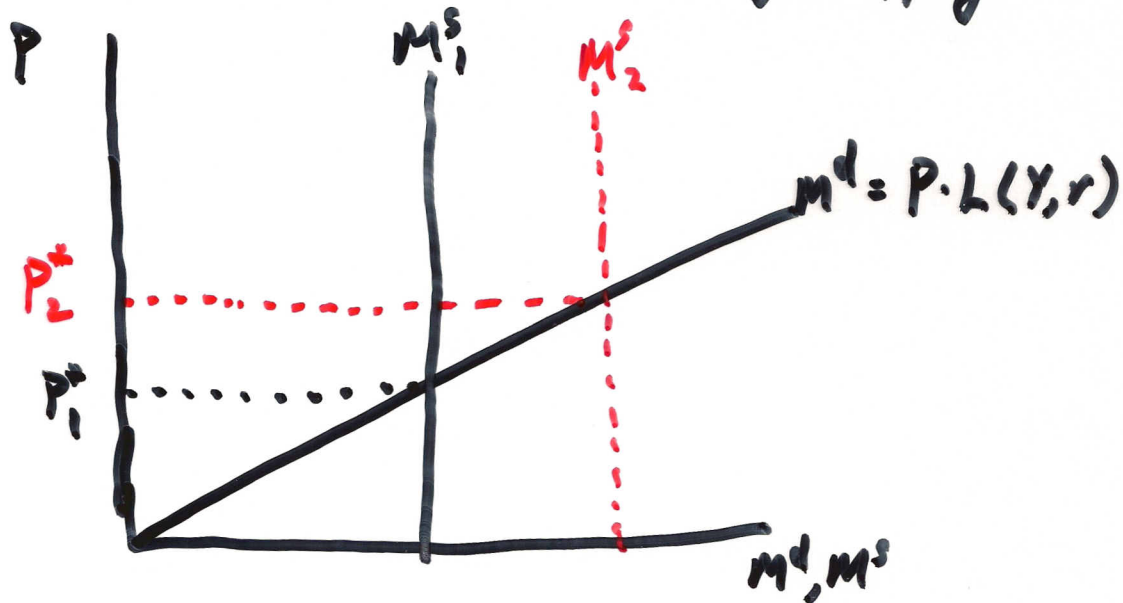
We can now depict equilibrium in the money market as follows:



The money supply curve is drawn vertical, since we assume the money supply is exogenous (i.e., it is determined by the Central Bank).

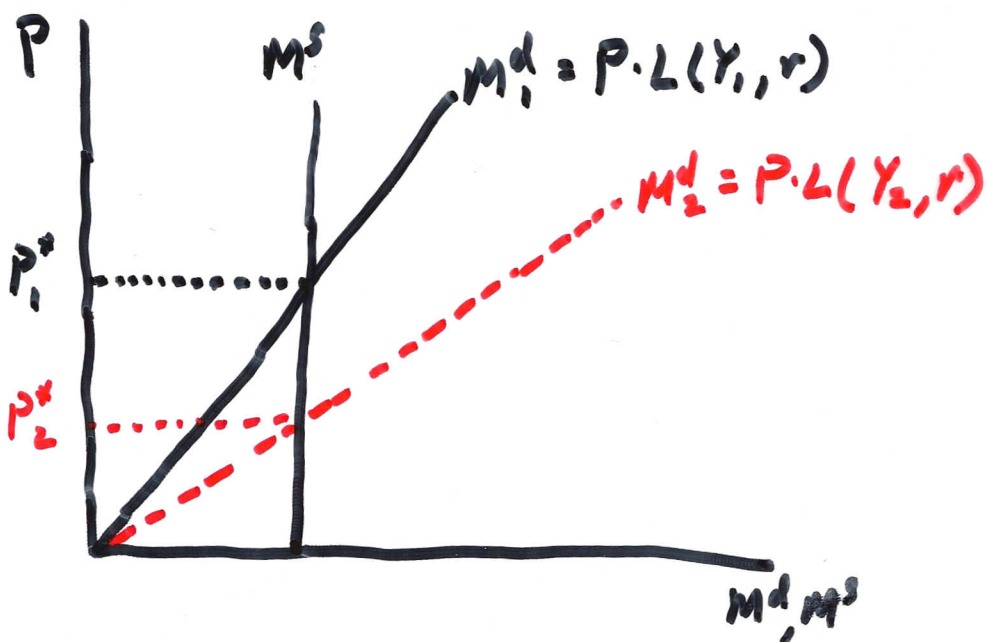
Comparative Statics

① An Increase in the Money Supply



$$M^s \uparrow \Rightarrow P \uparrow$$

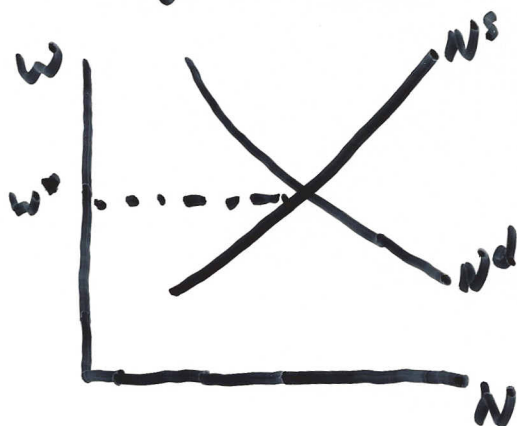
② An Increase in Output



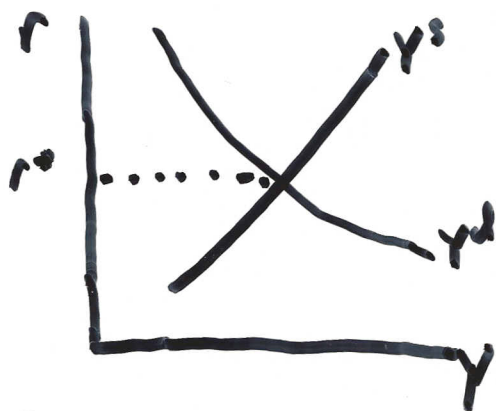
$$Y \uparrow \Rightarrow P \downarrow$$

The Monetary Intertemporal Model

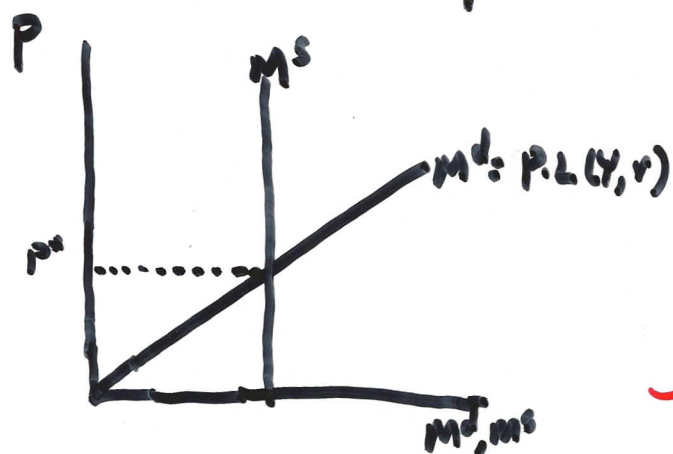
Now have 3 markets to keep track of: (1) The Labor Market, (2) The Goods Market, and (3) The Money Market.



Labor Market



Goods Market

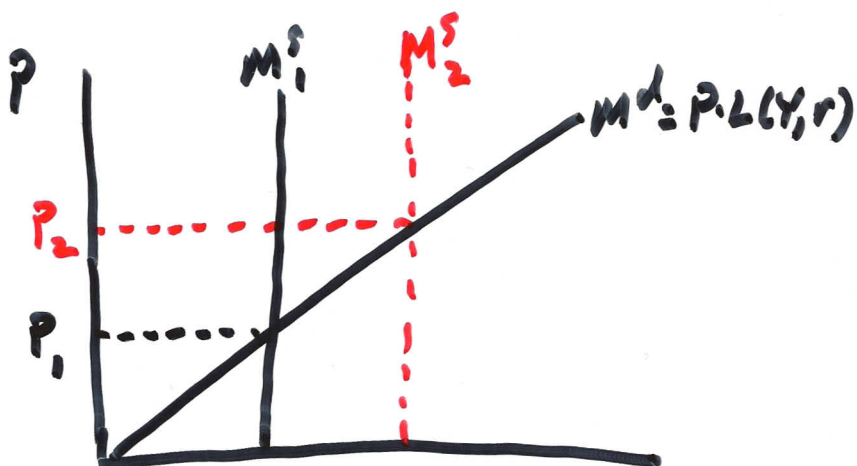
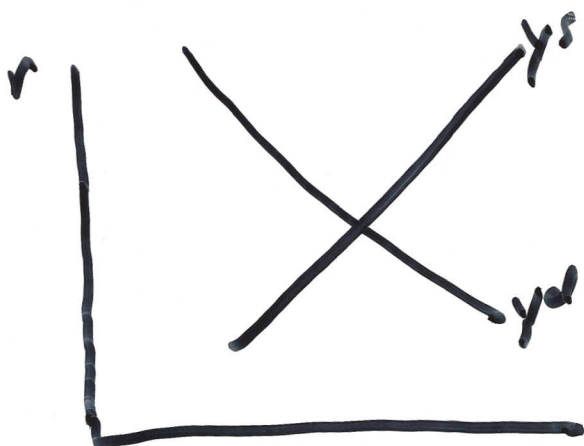
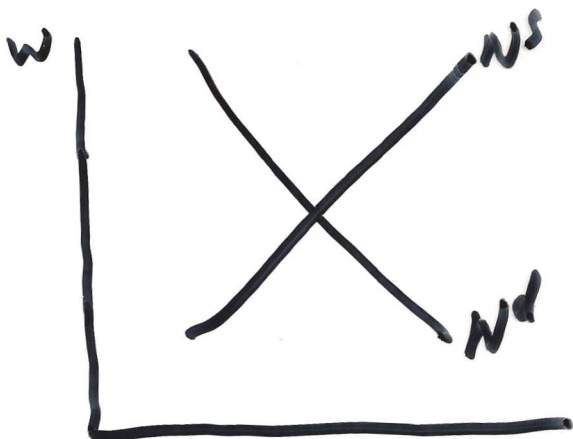


Money Market

Note that (for now) our task is simplified because causation runs in one direction. Although developments in the Labor and Goods markets influence the Money market, developments in the Money market do not influence the Labor + Goods markets. (This will change later).

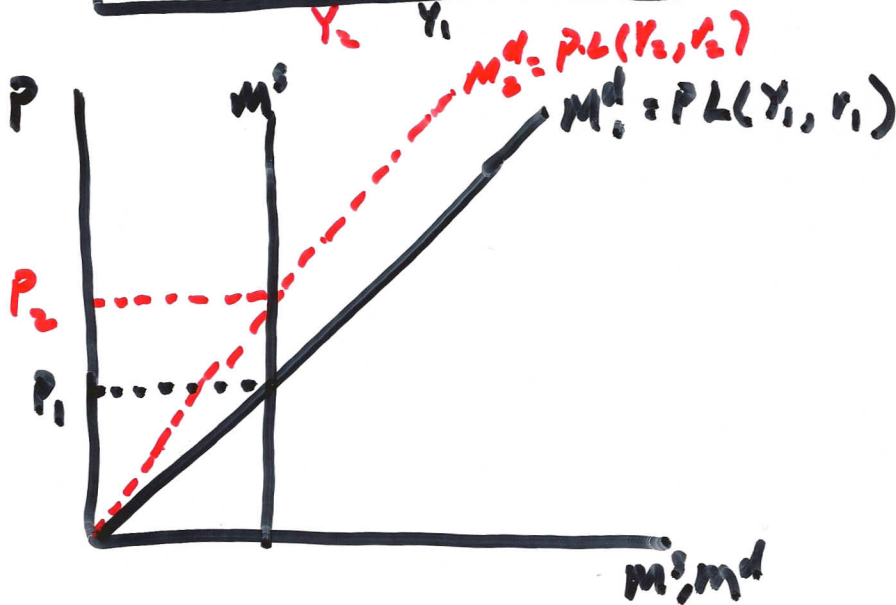
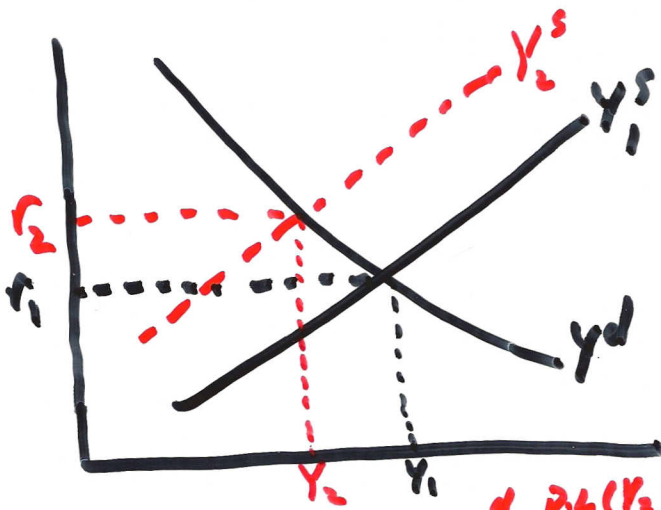
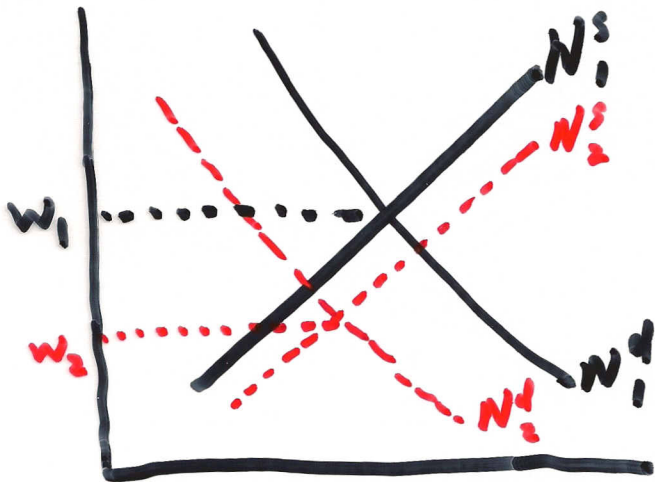
Comparative Statics

① An Increase in the Money Supply



$M^s \uparrow \Rightarrow P \uparrow$, No Change in "real" variables

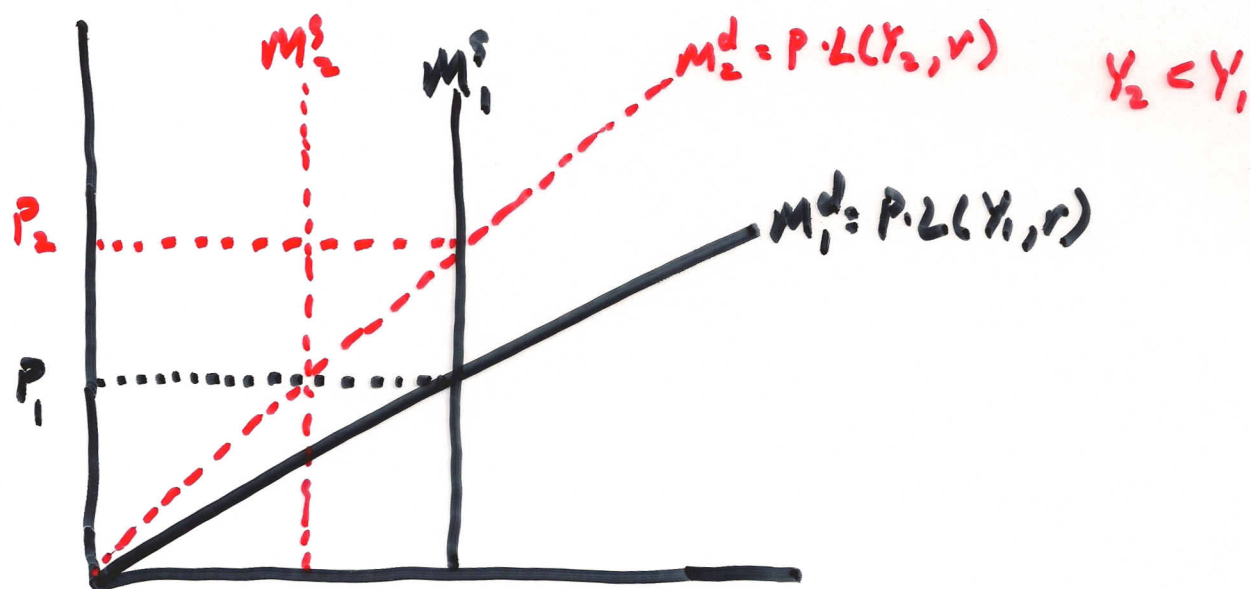
② Temporary Decrease in Productivity ($Z \downarrow$)



$Z \downarrow$ (temporary) $\Rightarrow P \uparrow$

③ Central Bank Stabilizes the Price Level

Suppose there is a recession ($Y \downarrow$), which causes money demand to shift left. Suppose the Central Bank stabilizes the price level.



With a passive Central Bank, the recession would cause inflation (price level increase to P_2).

An active, price-level stabilizing, Central Bank would prevent the price level from increasing by decreasing the money supply

(In this simple model there is no risk from doing this, and there could be some benefit. However, ~~when~~ if money has real effects, then a monetary contraction during a recession could be disastrous!)