Problem Set

Optimal Monetary Policy and the ZLB

- 1. Suppose that you have a sticky price New Keynesian model. Suppose further that the central bank wants to target a constant level of output, Y_t . How must it adjust the money supply in response to the following kinds of shocks:
 - a) A decrease in A_{t+1}
 - b) An increase in θ_t
 - c) An increase in π_{t+1}^e
- **2.** Summarizing what you have learned in the last question, explain how monetary policy ought to react to a positive shock to the IS curve. How should monetary policy react to a negative productivity shock (e.g. a decrease in A_t)?
- **3.** Explain why changes in government spending have a bigger effect on output at the ZLB than away from it. What is the economic intuition for it? Use an appropriate graph to underpin your argumentation.
- **4.** Explain what is meant by a *deflationary spiral* and why the normal mechanism which restores the efficient neoclassical equilibrium may not work at the ZLB.