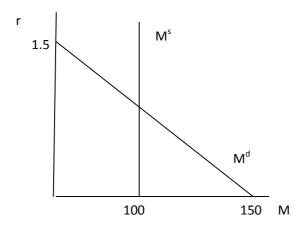
ECO 136 Quiz 2 April 21. 2009

Consider only Money Market.

$$M^d = 100 - 100r + Y$$

 $M^s = 100$
 $Y = 50$

a. Graph M^d and M^s (M on X-axis, r on Y-axis).



- M^d function is a linear function here.
- When you draw, draw an inverse demand function: $r = 1.5 (1/100)*M^d$
- If you are asked to draw a function given an equation, try to include at least y- and x-intercepts (if any).
- b. Compute the equilibrium level of r* and M^d*

The equilibrium occurs where $M^s=M^d$. Since $M^s=100$, simply plug $M^d=100$ into M^d function. $r^*=1.5-1/100^*100=0.5$, $M^{d*}=100$

c. Y increased to 75 while M^s is fixed. ($M^s = 100$). Compute new r and M^d .

$$M^d = 175 - 100r => r = 1.75 - (1/100)*M^d => Since Ms = 100$$
, plug in $M^d = 100$
 $\Rightarrow r = 1.75 - (1/100)*100 = 0.75$, $M^d*=100$.

d. If the central bank targets r = 0.5, how much M^s should be changed given Y = 75?

$$M^d = 175 - 100 \text{ r} => M^d = 175 - 100*0.5 = 175 - 50 = 125.$$

 $M^d = 125 = M^s => M^s$ should be 125, an increase of 25.

Most of you did really great! Keep up with your good work, and good luck for preparing for the 2^{nd} midterm. Those who had some difficulties with this quiz or any other course materials, write me an e-mail or drop by during my office hour.