

4. What is the equation representing the IS curve (including the multiplier)? What does the term \bar{b} represent and how is it related to the slope of the IS curve? Briefly explain.

5. What role did changes in interest rates by the Federal Reserve, first the decrease from 2000 to 2004, and then the increase from 2004 to 2007, play in the Great Recession? Briefly explain the impact of the decrease and then the impact of the increase.

6. Suppose that we initially have the following values for the variables that make up the IS curve:

$$\bar{b} = 0.5, \bar{a} = 0, R_t = \bar{r} = 5\%, \bar{x} = 0$$

If \bar{a}_{im} increases by 2% and the real interest rate falls by 4%, what will be the change in short-run output? Show your work.

7. **What is the difference between the ‘ex ante’ real interest rate and the ‘ex post’ real interest rate? Which one is used for investment decisions? Briefly explain.**