

Goals for this session

- Arbitrage Theory
- Bonds
- Stocks

Vocabulary/Definitions

- Four modes of savings:
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- Real Expected Rates of Return
 - Interest rate is COST for borrowers, and BENEFIT for lenders.
- Arbitrage
 - Are there arbitrage opportunities in equilibrium?
- Liquidity
- Interest Rate Spread
 - What ‘costs’ does the spread encompass?
- Bonds
 - Yield
 - Term
 - Repayment Price (Face Value)
 - Coupon
 - Secondary Market
- Stocks
 - Shares
 - Two types of returns:
 1. Dividends
 2. Rate of return by holding share

Problems

1. Why is the interest rate spread countercyclical?
2. Do stocks or bonds have a higher rate of return? Why?
3. Something exogenous occurs causing interest rates to fall
 - (a) What happens to bonds?

Coupon on old bond	
Secondary bond price	
Secondary bond yield	
New bond yield	

- (b) What happens to stocks?

Dividends	
Stock price	

4. The government decides to issue more bonds in order to pay for increased social security liabilities:
 - (a) What happens to bonds?

Coupon on old bond	
Secondary bond price	
Secondary bond yield	
New bond yield	

- (b) What happens to stocks?

Dividends	
Stock price	

From past exams

6. **Fall 13 Q2** If the interest rate is 4%, the present value of a \$300 bond a year from now is about:
7. **Fall 13 Q8** The present value of lottery winnings over a 20-year period will increase with a(n) **(increase/decrease)** in interest rates.
8. **Fall 14 Q16** Many economists expect bank lending rates to rise in March of 2015. Use arbitrage theory to how an increase in the interest rate would affect each of the following:
 - (a) Stock prices and their returns, explain.
 - (b) Secondary bond prices and their returns, explain.