## **Financial Markets Homework 3**

Due Date: 2024-12-23 23:59

- Q1. Compute the price of a share of stock that pays a \$1 per year dividend and that you expect to be able to sell in one year for \$20, assuming you require a 15% return.
- Q2. After careful analysis, you have determined that a firm's dividends should grow at 7%, on average, in the foreseeable future. The firm's last dividend was \$3. Compute the current price of this stock, assuming the required return is 18%.
- Q3. Wealthy people often worry that others will seek to marry them only for their money. Is this a problem of adverse selection? If not, which term is more suitable to describe this problem?
- Q4. You wish to hire Ron to manage your Dallas operations. The profits from the operations depend partially on how hard Ron works, as follows:

	profit probabilities	
	Profit = \$10,000	Profit = \$ 50,000
Lazy	60%	40%
Hard worker	20%	80%

If Ron is lazy, he will surf the internet all day, and he views this as a zero cost opportunity. However, Ron views working hard as a "personal cost" valued at \$1,000. What fixed percentage of the profits should you offer Ron? Assume Ron cares only about his expected payment minus any "personal cost".

## Q5. The bank you own has the following balance sheet:

Assets	Unit(\$ million)	liabilities	Unit(\$ million)
Reserves	75	Deposits	500
Loans	525	Bank capital	100

If the bank suffers a deposit outflow of \$50 million with a required reserve ratio on deposits of 10%, what actions should you take?

- Q6. What are the benefits and costs for a bank when it decides to increase the amount of its bank capital?
- Q7. Why is it a good idea for macro-prudential policies to require countercyclical capital requirements?