Introduction to Finance - II Quiz 3 February 11, 2020

Read the questions carefully. Don't make them harder than they are! Answer succinctly and precisely. Show all of your work.

1. Suppose that we pull the following monthly return data from a source such as WRDS for the stock Weyerhauser (WY) and the stock market.

Date	Returns	
	WY	Market
20190131	0.0	0.01
20190228	-0.01	0.0
20190329	0.025	0.02

(a) (30 points) What is Weyerhauser's beta?

(b) (15 points) What percentage of the variance of Weyerhauser's returns is diversifiable?

- 2. Suppose that you work for L3-Harris and your statistical and economic analyses provide the following information: L3-Harris beta: 1.3; standard deviation of monthly returns of L3-Harris stock: 10%; standard deviation of monthly returns on the US stock market: 3%; annual risk-free rate: 3.5%; annual expected return on the US stock market: 7.5%.
 - (a) (20 points) According to the CAPM, what is the annual expected return on L3-Harris' stock?

(b) (20 points) What percentage of L3-Harris' variance is diversifiable?

(c) (15 points) Like L3-Harris, Boeing has a beta of 1.3. However, Boeing's stock is much more volatile than that of L3-Harris. Its monthly return standard deviation is 13%. Does Boeing have a higher cost of equity capital than L3-Harris? *Explain*.