

Finance 5360 Quiz B: 7/22/15

Name _____

Assume you are considering investing \$100,000 in a mix of T-bills which earn a 5% return, Popsi which has an expected return of 6% and a standard deviation of returns of 9%, and Time Analytics Inc. which has an expected return of 10% and a standard deviation of returns of 20%. Assume that the correlation between Popsi and Time Analytics is -0.2 .

- a. Sketch a graph of the possible combinations of expected return and standard deviation that you could achieve if you limit yourself to positions (long or short) in Popsi and Time Analytics.
- b. On the same graph you used to answer "a", identify the best portfolio that would give you a standard deviation of returns of 18%. What is the approximate mix of assets in this portfolio?
- c. On the same graph you used to answer "a" and "b", identify the best portfolio that would allow you to give you a standard deviation of returns of 18% if you also allow some sort of position in T-bills.
- d. Assume that the risk-free rate falls to 1%, but that nothing else changes. Identify your new best portfolio and show how much better or worse off you are in "d" than "c".