Problem Set 6

Corporate Finance, Sections 001 and 002 Due Thursday, March 25th

Suggested problems:

RWJ Problems 9.2, 9.3, 9.13, 9.15, 9.19 (Use revised problems on http://finance.wharton.upenn.edu/~jwachter/fnce100.)

Required problems:

- 1. Suppose you have 2 mutual funds whose annual returns are shown in the following table. Assume you invest \$100 in each, and the proceeds from year 1 are reinvested in year 2 and so on.
 - (a) How much money do you accumulate in each fund after 5 years?
 - (b) For each fund, calculate the single annual rate which would yield the same return over the 5-year period.

Year	Fund A	Fund B
1	.16	.30
2	.10	10
3	.14	.28
4	.02	.17
5	.04	02

2. The expected returns and standard deviation of returns for two securities are as follows:

	Security Z	Security Y
Expected Return	15%	35%
Standard Deviation	20%	40%

The correlation between the returns is + .25.

(a) Calculate the expected return and standard deviation for the following portfolios:

(i) all in Z
(ii) .75 in Z and .25 in Y
(iii) .5 in Z and .5 in Y
(iv) .25 in Z and .75 in Y
(v) all in Y

(b) Which portfolios might be chosen by an investor who likes mean and dislikes variance?