



(c) (5 points) Illustrate Portfolio A on a graph where you also plot the risk-free asset, the S&P 500 index fund, the capital allocation line and your indifference curve. Are you a relatively risk averse investor? Explain.

(d) (5 points) Now your employer adds an emerging-market fund to the two existing funds. The emerging-market fund offers an expected return of 10% per year, the same as the S&P 500 index fund, but with a standard deviation of 30%, higher than the S&P 500 index fund. Would you consider including the emerging-market fund as part of your portfolio? Explain.

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(b) (7 points) Plot the term structure of interest rates. If the expectation hypothesis holds, what does the information in the term structure say about the course of future interest rates? What will the price and yields to maturity on the two and three-year zero coupon bonds be next year?

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(c) (7 points) What should be the current price of a three-year maturity bond with a 12% coupon rate paid annually? If you purchased it at that price, what would your total expected rate of return be over the next year (coupon plus price change)?

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