Assignment 12
Due on: 2019-10-30, 23:59:59

Course outline
How to access the exam?

Overview

Week 1
1. Consider a positive-defining matrix A of size $n 	imes n$ and a $n 	imes n$ positive matrix B. Assume that the matrix is positive. A positive-defining matrix is a matrix that is positive-defining and has all positive eigenvalues. The positive-defining matrices are important in various fields of mathematics and physics, as they have many desirable properties.

Week 2
2. You own a portfolio comprising of stocks ABC Ltd and XYZ Ltd. On an event day, you receive further information about the risk of your portfolio.

Week 3
3. A portfolio manager is evaluating the performance of her portfolio compared to the market. She wants to understand the risk and return characteristics of her portfolio. The manager uses statistical methods to analyze the portfolio's performance.

Week 4
4. A stock price forecast model is developed using historical data and statistical techniques. The model predicts future stock prices based on past performance.

Week 5
5. The current market price of a stock is $100. The market expects the stock price to increase by 5% in the next year. The forward price of the stock is calculated as $100 * 1.05 = $105.

Week 6
6. A portfolio manager is considering the inclusion of a new stock in the portfolio. The manager uses various metrics and strategies to evaluate the potential impact of the new stock on the portfolio's performance.

Week 7
7. A risk management strategy is employed to reduce the risk exposure of the portfolio. The strategy involves diversification and hedging techniques.

Week 8
8. A financial analyst is preparing a report on the performance of a company's stock. The report includes an analysis of the company's financial statements and market trends.

Week 9
9. A portfolio manager is analyzing the performance of a portfolio over a period of time. The manager uses various performance metrics to evaluate the portfolio's effectiveness.

Week 10
10. A financial advisor is working with a client to create a retirement income plan. The advisor uses various financial tools and strategies to develop a comprehensive retirement plan.

Week 11
11. A stock market analyst is monitoring the performance of a stock. The analyst uses various metrics and indicators to track the stock's performance and make informed investment decisions.

Week 12
12. A financial expert is preparing a presentation on the challenges facing the financial industry. The presentation highlights various factors that impact the financial sector and discusses potential solutions.

Downloadables

Video
Course Notes
Answers
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Test Transcripts