

MA104 Lesson 18

SOLVING OPTIMIZATION PROBLEMS II

Wednesday, 13 February, 2008

Outline

- 1 Admin
- 2 Last Class
- 3 Project Help
- 4 SOLVING OPTIMIZATION PROBLEMS II
 - Course Guide
 - SOLVING OPTIMIZATION PROBLEMS II
 - Definitions
 - An Example
 - Do Problem - Help
 - The Dreaded Thayer Board Work
- 5 Look Forward - SOLVING OPTIMIZATION PROBLEMS III
 - Course Guide

Admin

- 1 Project Help
- 2 Quiz will be on Thursday to avoid a quiz on the same day as your Chemistry WPR.
- 3 Fundamentals of Derivative participants will take the make-up on Friday during normal class time. Come to my office during the normal class time to receive the make-up. Anyone can take this make-up to strengthen their derivative skills.
- 4 Fish Fry - Shuttle from Sups Box on the hour from 1700-1900. Cost \$12, Tilapia and Whiting.

SOLVING OPTIMIZATION PROBLEMS I

Questions?

Open Mathematica!

You are getting a gift!

A lesson in Mathematica Graphics!

Maybe if you participate a lesson in some other Mathematica stuff!

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Objectives

- 1 Model and solve optimization problems.

READ

I Stewart: Section 4.7, pages 322-327.

DO Problems

I Section 4.7/ 12, 24, 31, 33

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Definitions

1 Steps in solving optimization problems - pg 322

- 1 Understand the problem
- 2 Draw a diagram
- 3 Introduce Notation
- 4 Express Q
- 5 Find a relationship
- 6 Find absolute Max or Min

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An Example

Example Problem

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Do Problem - Help

Section 4.7/ 12, 24, 31, 33

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Board Work

1 Board Problems

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LESSON 19 - SOLVING OPTIMIZATION PROBLEMS III

1 OBJECTIVES:

1 Model and solve optimization problems.

2 READ:

1 Stewart: Section 4.7, pages 322-327.

3 DO:

1 Section 4.7/ 30, 36, 38

Questions?

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