

Assignment #11 for **Mathematics for Economists**
Economics 392M.8, Fall 2013

Due date: Mon. Nov. 25.

Readings: CSZ, Ch. 5.8-11.

We are going to spend this week on a variety of useful tools: the use of complementary slackness in finding solutions to constrained maximization problems; why quasi-concavity is not quite enough for the K-T theorem; the envelope theorem; and second derivative tests for concavity.

- A. From Ch. 5.8: 5.8.16 and 5.8.17.
- B. From Ch. 5.8: 5.8.22, 5.8.23, and 5.8.24.
- C. From Ch. 5.9: 5.9.5, 5.9.6, and 5.9.7.
- D. From Ch. 5.10: 5.10.4 and 5.10.5.
- E. From Ch. 5.10: 5.10.7 and 5.10.9.
- F. From Ch. 5.10: 5.10.11.
- G. From Ch. 5.10: 5.10.14.