

Massachusetts Institute of Technology

Physics 8.09 Fall 2006

Homework 5

due Monday, October 18, 2006 at 12:30 PM

Suggested Reading

Goldstein Chapter.Section Canonical Transformations: 9.1-9.3,9.6,9.7

Problems

Problem 5.1 (20 pts)

Goldstein, Chapter 9, Problem 4, page 422.

Problem 5.2 (20 pts)

Goldstein, Chapter 9, Problem 9, page 423.

Problem 5.3 (20 pts)

Goldstein, Chapter 9, Problem 21, page 424.

Problem 5.4 (20 pts)

Goldstein, Chapter 9, Problem 26, page 426.

Problem 5.5 (20 pts)

Goldstein, Chapter 9, Problem 31, page 427.