

Solutions to Problems in Goldstein,
Classical Mechanics, Second Edition

Homer Reid

June 17, 2002

Chapter 8

Problem 8.4

The Lagrangian for a system can be written as

$$L = ax^2 + b\frac{\dot{y}}{x} + cx\dot{y} + fy^2k\dot{z} + g\dot{y} - k\sqrt{x^2 + y^2},$$

where $a, b, c, f, g,$ and k are constants. What is the Hamiltonian? What quantities are conserved?

Problem 8.5

A dynamical system has the Lagrangian

$$L = \dot{q}_1^2 + \frac{\dot{q}_2^2}{a + bq_1^2} + k_1q_1^2 + k_2q_1q_2,$$

where $a, b, k_1,$ and k_2 are constants. Find the equations of motion in the Hamiltonian formulation.

Rewriting the Lagrangian in the form of Goldstein's (8-16), we have

$$L = k_1q_1^2 + \frac{1}{2} \begin{pmatrix} \dot{q}_1 & \dot{q}_2 \end{pmatrix} \begin{pmatrix} 2 & k_2 \\ k_2 & \frac{2}{a+bq_1^2} \end{pmatrix} \begin{pmatrix} \dot{q}_1 \\ \dot{q}_2 \end{pmatrix}$$

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