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Homework #11. Starting with the zero order solution (O (w 0)), you can obtain the 1st order solution (O (w 1)) by subsiting the 0th order solution back into the couple ODEs. You can also ignore the centrigugal force for this problem.

Classical Mechanics – Evan Ney

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Homer Reid's Solutions to Goldstein Problems: Chapter 8 2 From this we can immediately identify the T matrix and its inverse: T = 2 k 2 k 2 2 a + bq 2 1 T - 1 = a + bq 2 1 4 - k 2 2 (a + bq 2 1) 2 a + bq 2 1 - k 2 - k 2 2 Then the Hamiltonian is H = 1 2 a + bq 2 1 4 - k 2 2 (a + bq 2 1) p 1 p 2 2 a + bq 2 1 - k 2 - k 2 2 p 1 p 2 - k 1 q 2 1 = a ...