Quiz 9

Timothy Holmes
PHY 440 Classical Mechanics

November 19, 2019

Problem 1

I found equation 6.15 interesting. Seeing quantum mechanics in the past and seeing the relationship of the Hamilton-Jacobi theory make understanding the Schrodinger equation nice from seeing it from another perspective.

Problem 2

In this equation he is assuming that the method of separation to solve a differential equation is true. The method of separation in differential equations makes it easier to solve the differential equation. It may also be good to note that w is dependent on a generalized coordinate and a. While v is dependent on a and time t.

Problem 3

If it was an explicit function of time the integration step set up V and W would have different derivatives. It would also make q and t dependent.