Physics 431/531: Mechanics I
Assignment 5

Reading

Chapter 4 of the textbook.

Homework assignment

Do the following in Fowles and Cassiday. Due Monday, October 18. We will discuss these problems on Wednesday, October 13.

- Problem 4.1(c). Also, if a point particle of mass $m$ is projected with speed $v_0$ from a point $(x_0, y_0, z_0)$ in this potential, what is its speed if it passes through the origin? [5 points]

- Problem 4.2 (a) and (b) [5 points] (OPTIONAL FOR GRADUATE STUDENT)

- Problem 4.5 [10 points] (Optional for undergraduate students)

- Problem 4.10 [10 points]

- Problem 4.17 [10 points]

- Problem 4.18 [10 points]