

Worksheet #16

(Wednesday, November 8, 2023)

Name**Questions (5 pts):**

Consider a particle of mass m moving in 1D in a constant field f , so that the Hamiltonian is given by $H = P^2/2m - fX$. Write down the time-independent Schroedinger equation in:

(i) x- basis

(ii) p-basis

Which one would you prefer to solve ? Why ?