Worksheet #17
(Friday, November 3, 2017)

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 $H = \frac{P^2}{2m} - fX$. Write down the time-independent Schrödinger equation in:

(i) $x$-basis

(ii) $p$-basis

Which one would you prefer to solve? Why?