

Homework 8:

1. Textbook 2.38,
2. Textbook 2.46
3. Textbook 2.49
4. Consider a particle of mass subject to the potential $V(x) = \infty$ for $x \leq 0$ and $V(x) = -V_0\delta(x-a)$ for $x > 0$ where $V_0 > 0$. Discuss the existence of bound states in terms of the size of a ($a > 0$).