

Quiz 2

Problem 1

One dimensional infinity deep square well (20 points)

For a particle with mass m in a potential

$$V(x) = \begin{cases} +\infty & x < -\frac{a}{2} \\ 0 & -\frac{a}{2} \leq x \leq \frac{a}{2} \\ +\infty & x > \frac{a}{2} \end{cases},$$

1.