

1. From E. Merzbacher, "Quantum Mechanics" 2nd ed., Exercise 15.4 (P. 345).

Consider a 1D problem where we use the set of eigenstates of $\hat{x}$, i.e., $|x'\rangle = \delta(x - x')$,

$-\infty < x' < \infty$, as the basis. A fancy terminology is that "we work in the **coordinate**

representation". The parity operator P is defined by $P|x\rangle = |-x\rangle$. Note that $P^2 = I$.

This type of operator is called an **involution**. Also $P^{-1} = P$.

a) Show that P is unitary, i.e., $\langle Px_1 | x_2 \rangle = \langle x_1 | P | x_2 \rangle$ for any x_1, x_2 .

b) Show that under this unitary transformation $\hat{x} \rightarrow -\hat{x}$ and $\hat{p} \rightarrow -\hat{p}$, i.e.,

$$\langle x_1 | P \hat{x} P | x_2 \rangle = -\langle x_1 | \hat{x} | x_2 \rangle, \text{ etc.}$$

Importance: this exercise shows that not all unitary transformations can be broken down into infinitesimal transformations. P is a counter example. But since it is unitary, canonical quantization also works under parity transformation.

Merzbacher Exercise Solutions

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