

# Quantum Mechanics

## Practice Problems on Operators

### Problem-1

If  $\hat{A}$  is the complex conjugation operator [i.e.,  $\hat{A}f(x) = f^*(x)$ ] and  $\hat{B}f(x) = \frac{df}{dx}$  for any  $f(x)$ , show that  $[\hat{A}, \hat{B}] = 0$

#### Solution

$$\hat{A}\hat{B}f(x) = \hat{A}\frac{df(x)}{dx} = \frac{df^*(x)}{dx};$$

$$\hat{B}\hat{A}f(x) = \hat{B}f^*(x) = \frac{df^*(x)}{dx}$$

$$\therefore \hat{A}\hat{B}f(x) - \hat{B}\hat{A}f(x) = 0$$

$$\text{or} \quad (\hat{A}\hat{B} - \hat{B}\hat{A})f(x) = 0$$

Since  $f(x)$  is arbitrary,  $\hat{A}\hat{B} - \hat{B}\hat{A} = 0$  or  $[\hat{A}, \hat{B}] = 0$   
or  $\hat{A}$  and  $\hat{B}$  commute with each other. ■

### Problem-2

Show that  $[\hat{x}, \hat{p}_x] = i\hbar$

#### Solution

For any configuration space wave function  $\psi(x)$ ,

$$[\hat{x}, \hat{p}_x]\psi(x) = \hat{x}\hat{p}_x\psi(x) - \hat{p}_x\hat{x}\psi(x)$$

$$= x \frac{\hbar}{i} \frac{\partial \psi}{\partial x} - \frac{\hbar}{i} \frac{\partial}{\partial x}(x\psi)$$

$$= \frac{\hbar}{i} \left( x \frac{\partial \psi}{\partial x} - \psi - x \frac{\partial \psi}{\partial x} \right)$$

$$= i\hbar\psi$$

Since  $\psi$  is arbitrary,  $[\hat{x}, \hat{p}_x] = i\hbar$  ■

### Problem-3

Show that  $[\hat{p}_j, \hat{f}(\vec{r})] = \frac{\hbar}{i} \frac{\partial f}{\partial r_j}$  for  $j = 1, 2, 3$

# Some Problems Of Mathematics And Mechanics

**George Milton Hopkins**



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