

# Problem Set 6

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## **I TIME-DEPENDENCE OF SPIN OPERATORS IN HEISENBERG PICTURE**

**A**

**B**

**C**

## **II QUANTUM VIRIAL THEOREM**

**A**

**B**

**C**

## **III SAKURAI 2.17: SIMPLE HARMONIC OSCILLATOR IN MOMENTUM SPACE**

**A**

**B**

**C**

## **IV UNCERTAINTY RELATION FOR EIGENSTATES OF THE SIMPLE HARMONIC OSCILLATOR**

## **V TIME-DEPENDENCE OF SIMPLE HARMONIC OSCILLATOR STATES**

**A**

**B**

**C**