Review for Test 2

Explain each of the following in as much detail as you can.

1. Principle 1 (states of a system)

2. Principle 2 (observables)

3. Principle 3 (probabilities)

4. Principle 4 (collapse)

5. Principle 5 (time evolution)
6. Plane wave

7. Entanglement

8. Bosons and fermions

9. Spinor

10. Hermitian
11. Adjoint

12. Commutator

13. Matrix element

14. Ladder operators

15. Compatible observables
16. Uncertainty principle

17. Angular momentum operators

18. Angular momentum quantum numbers

19. Spherical harmonics