

Review Questions

1. List three experiments, which can only be explained using quantum mechanics.
2. What is a Rydberg?
3. Name the two primary assumptions of the Bohr model.
4. How do we know that the energy levels in a hydrogen atom are quantized?
5. What two parameters are linked by Gauss's law?
6. What two parameters are linked by Poisson's equation?
7. What is the definition of thermal equilibrium?
8. List the three laws of thermodynamics.
9. Explain in words the meaning of the thermodynamic identity.
10. What is the Fermi function?