

1. Is the wavelength of electrons on different orbits the same or different? If different what is the ratio of the wavelength in first and 4th orbits?
2. The Davisson-Germer experiment that first demonstrated the wave nature of matter used electrons accelerated to 54 V. solve the followings?
 - a. Determine the energy of the electrons in joules?
 - b. How fast were the electrons moving in this experiment?
 - c. What momentum did these electrons have?
 - d. Determine the wavelength of these electrons.