Ch 9 review genetics

1. Explain the difference between genetics and heredity.
2. Explain what the P, F1 and F2 generations are and how the P generation was obtained?
3. Who discovered the two laws of genetics and what are those two laws?
4. Explain the difference between dominant and recessive traits and write an example using white and red flower color, red being dominant for a completely dominant trait.
5. What are the four varieties of monohybrid crosses?
6. Explain the difference between genotype and phenotype and list the ratios for a heterozygous by heterozygous cross of red flowers.
7. Explain what the heterozygous traits would look like in codominance and incomplete dominance for red and white flowers.
8. Predict the gametes, phenotypic, and genotypic ratios for a heterozygous by heterozygous plant that is red and tall dominant.
9. In a monohybrid cross how many letters do the parent traits have versus the parent gametes have versus the offspring traits, draw a Punnett square if you need to?
10. Same for a dihybrid and trihybrid cross.