Ch 8 review cellular reproduction

1. Draw and label a chromosome using the following parts: chromosome, sister chromatid, centromere, telomere, and chromatin.
2. Describe the difference between autosomes and sex chromosomes and homologous chromosomes.
3. Define karyotype and what is it used for?
4. What is the difference between diploid and haploid in terms of human numbers and what do n and 2n represent?
5. What is the difference between cellular division in prokaryotes and eukaryotes?
6. What are the steps of interphase?
7. What are the steps of mitosis and the number of products and the number of chromosomes?
8. What are the steps of meiosis and the number of products and the number of chromosomes?
9. What are two ways of chromosomes getting changed in meiosis and when do they occur?
10. What are three reasons for mitosis and three reasons for meiosis to occur?