Assignment #4

A 2n=4 cell has chromosomes that look like this:

1. Draw what the cell looks like after S phase. Label one of the following:
   a. Chromatid
   b. Pair of sister chromatids
   c. Chromosome

   How many chromosomes are in the cell now? ______

   (stop here and wait for your instructor)

2. a. What will this cell look like during Metaphase of mitosis?

   b. What will this cell look like during the following stages of meiosis?

   Metaphase I  |  Telophase I  |  Metaphase II  |  Telophase II

3. a. In the cells above, write an “n” next to the cells that are haploid.

   b. Does the first or second division cause haploidy? ______