Cell Biology

Mitosis Period:

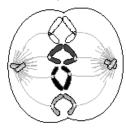
Use Chapter 5, Section 2 of your textbook to answer the questions below.

Mitosis and the Cell Cycle (p.154)

Use the figure below and Figure 4 in your book to answer questions 1 through 7.









Name:

Mitosis Phase 1

Mitosis Phase 2

Mitosis Phase 3

Mitosis Phase 4

Just before mitosis begins, the chromosomes in the nucleus of the cell are	·
2. When chromosomes turn into rodlike structures, has be	egun.
3. Before paired chromatids can line up in the center of the cell, the	must dissolve.
4. After lining up in the center of the cell, the paired chromatidssides of the cell.	and move to opposite
5. Once the chromosomes are at opposite sides of the cell, a of chromosomes.	forms around each set
6. Finally, is complete when the chromosomes decondens nuclei.	se in the newly-formed
7. After the nuclear membranes have formed around the chromosomes, the in two, making two new cells.	pinches
Cytokinesis (p.154)	
8. When the cytoplasm of a cell is divided by the cell membrane, the process is called	
9. Two are formed after cytokinesis.	
10. Which of the following does the cell membrane do during cytokinesis in an a. pinches in two b. forms a cell plate c. makes copies of its DNA	
11. Which of the eukaryotic cells below do NOT have a cell wall?	
a. algae cells b. plant cells c. animal cells d. fungi cells	
12. What forms between the two new cells during plant cell cytokinesis? a. a cell plate b. a cell membrane c. a nuclear membrane d. o	cytoplasm