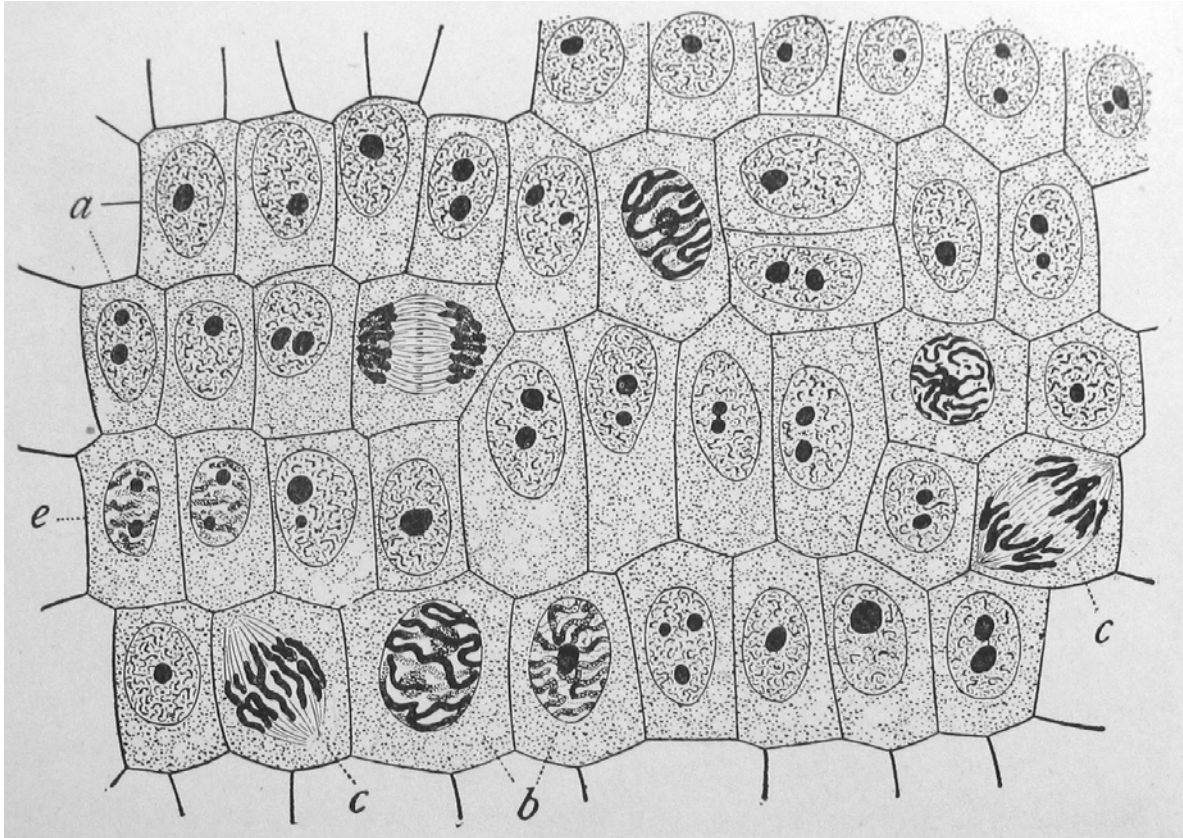


Mitosis



Are these plant or animal cells?

Find all the phases of mitosis (prophase, metaphase, anaphase, and telophase).

Name the phases of these cells:

- a.
- b.
- c.
- e.

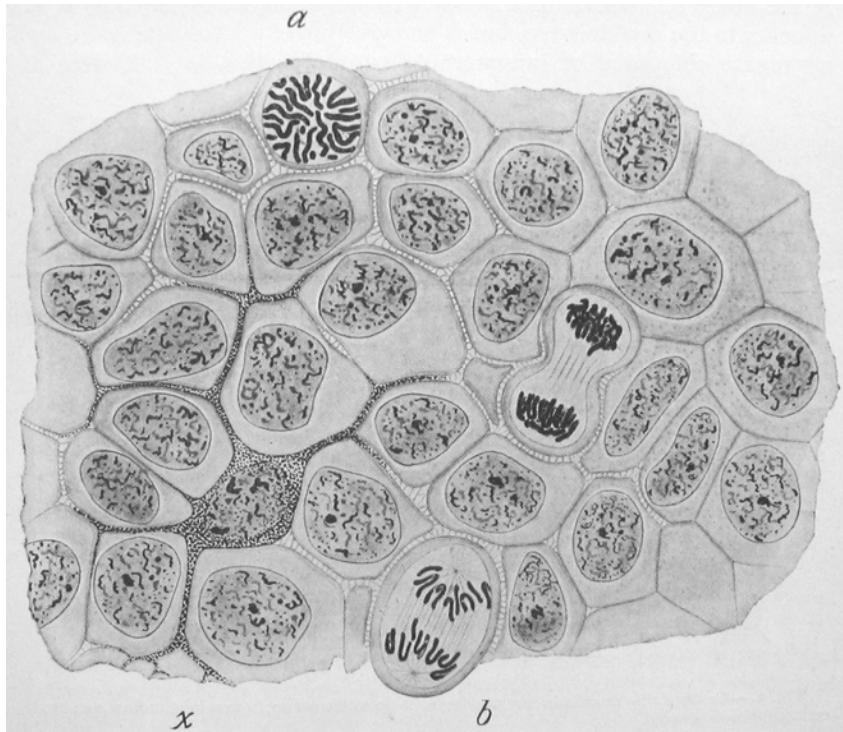
Find a cell in interphase.

Why are there more cells in interphase than all of the other phases?

What are the 3 phases of interphase?

What phase (specifically) does DNA synthesis happen?

What are those dark spots inside the nucleus of cells A and E? What happens there?



Are these plant or animal cells?

Find all the phases of mitosis (prophase, metaphase, anaphase, and telophase).

Find a cell in interphase.

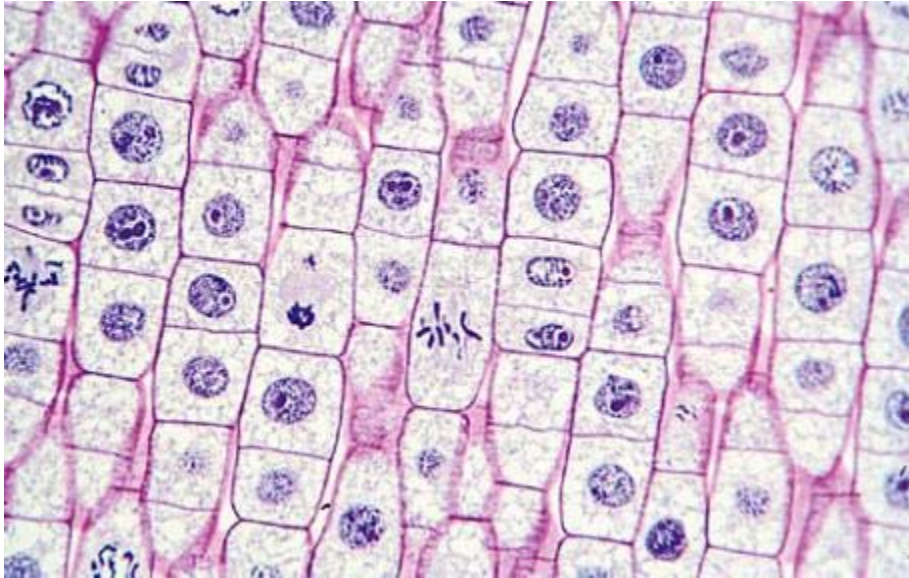
What is the phase at letter b?

List all the events that happen in this phase.

What is the phase at letter a?

List all the events that happen in this phase.

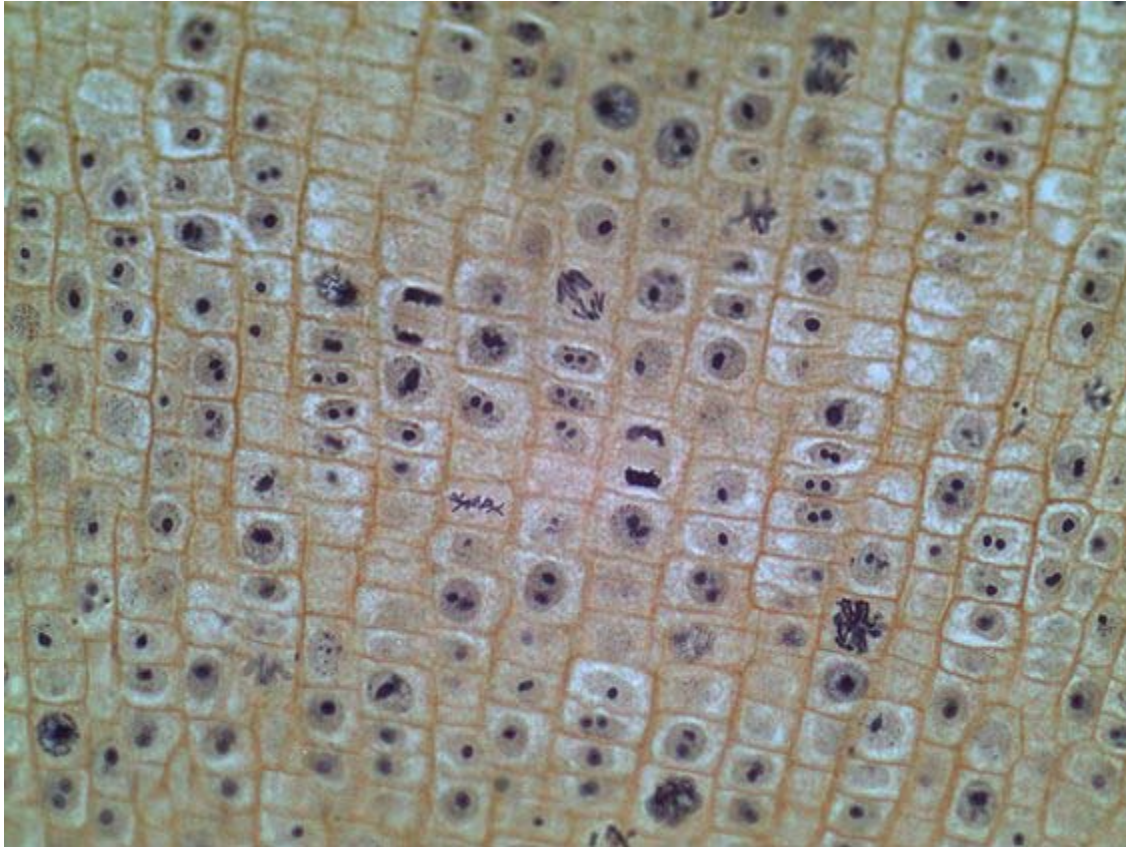
Number these cells in correct order (1=Interphase / 2=Prophase/ 3=Metaphase / 4=Anaphase / 5=Telophase / 6=Cytokinesis)



Identify the phases of these cells (I=Interphase / P=Prophase/ M=Metaphase / A=Anaphase / T=Telophase / C=Cytokinesis)

List the 3 differences between the animal and plant cells in the process of mitosis and cytokinesis.

- 1.
- 2.
- 3.



Identify the phases of these cells (I=Interphase / P=Prophase/ M=Metaphase / A=Anaphase / T=Telophase / C=Cytokinesis)

Are these plant or animal cells?

How does cytokinesis (division of the cytoplasm) happen in these cells?

In what phase of mitosis do the sister chromatids separate from each other?

What are sister chromatids? What are homologous pairs?

Vocabulary!!! Define these words and use them in a sentence:

M phase	centromere	Cell plate
Interphase	daughter cells	metaphase plate
cytokinesis	G1 phase	centriole pairs
cell cycle	S phase	nucleolus
chromatin	G2 phase	nuclear envelope
spindle fibers	asters	daughter chromosomes
sister chromatids	centrosomes	kinetochore
homologous chromosomes	cleavage furrow	microtubules

With amazing, sexy Biology language, explain what happens in each phase of the cell cycle. Use the vocabulary and explain what is happening to the cell at each point during the cycle.

- Interphase:
- Prophase:
- Metaphase:
- Anaphase:
- Telophase:
- Cytokinesis: