

Thus, the first equation in (3) is satisfied. Now for the second equation in (3).

$$\begin{aligned}
 \mathcal{L}(cu) &= \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} \right) (cu) \\
 &= \frac{\partial}{\partial x}(cu) + \frac{\partial}{\partial y}(cu) \\
 &= c \frac{\partial}{\partial x} u + c \frac{\partial}{\partial y} u \\
 &= c \left(\frac{\partial}{\partial x} u + \frac{\partial}{\partial y} u \right) \\
 &= c \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} \right) u \\
 &= c \mathcal{L}u
 \end{aligned}$$

The second equation in (3) is also satisfied, and hence the PDE in this example is linear.

Example Two:

$$\begin{aligned}
 u_x + yu_y &= 0 \quad (\text{transport}) \\
 \frac{\partial}{\partial x} u + y \frac{\partial}{\partial y} u &= 0 \quad (\text{change notation}) \\
 \left(\frac{\partial}{\partial x} + y \frac{\partial}{\partial y} \right) u &= 0 \quad (\text{factor the common term}) \\
 \mathcal{L}u &= 0
 \end{aligned}$$

Therefore, for this example, the operator we are working with is

$$\mathcal{L} = \frac{\partial}{\partial x} + y \frac{\partial}{\partial y}$$

Now the equations in (3) may be verified. Suppose u and v are solutions to the PDE. The first equation in (3) yields

$$\begin{aligned}
 \mathcal{L}(u + v) &= \left(\frac{\partial}{\partial x} + y \frac{\partial}{\partial y} \right) (u + v) \\
 &= \frac{\partial}{\partial x}(u + v) + y \frac{\partial}{\partial y}(u + v) \\
 &= \frac{\partial}{\partial x}u + \frac{\partial}{\partial x}v + y \frac{\partial}{\partial y}u + y \frac{\partial}{\partial y}v \\
 &= \frac{\partial}{\partial x}u + y \frac{\partial}{\partial y}u + \frac{\partial}{\partial x}v + y \frac{\partial}{\partial y}v \\
 &= \left(\frac{\partial}{\partial x} + y \frac{\partial}{\partial y} \right) u + \left(\frac{\partial}{\partial x} + y \frac{\partial}{\partial y} \right) v \\
 &= \mathcal{L}u + \mathcal{L}v
 \end{aligned}$$

Thus, the first equation in (3) is satisfied. Now for the second equation in (3).

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mitosis introduction in this lab you will examine the dividing root tip cells of an onion you will examine the specimen to identify the various phases of the cell cycle to see which phases cells spend more time in and you will answer related analysis questions to further your understanding of the eukaryotic cell cycle pre lab

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sep 14 2021 the process of mitosis is only a short period of the lifespan of cells mitosis is traditionally divided into four stages prophase metaphase anaphase and telophase the actual events of mitosis are not discreet but occur in a continuous sequence separation of mitosis into four stages is merely convenient for our discussion and organization

top tips for observing mitosis lab thoughtco - Apr 20 2023

jul 25 2019 procedure 1 create a data table with the following headings across the top number of cells percentage of all cells time min and the stages of mitosis down the side prophase metaphase anaphase telophase 2 carefully put the slide on the microscope and focus it under low power 40x is preferred 3

dna observing mitosis name siti nur fazlina noordeen - Mar 07 2022

feb 23 2022 many cells will be in various stages of mitosis number of words 244 words aim to study the image of onion cells under a microscope and identify actively dividing cells throughout mitosis during the cell cycle s phases materials and methods refer to the practical activity handout dna observing mitosis results

stages of mitosis in onion root cells lab manual for biology - Jul 11 2022

discuss the answers to the questions with a partner think pair share and then the class activity 2 observe the stages of mitosis in onion root cells plant cells also use mitosis for growth maintenance and repair

lab 8 the modeling and microscopic observation of mitosis and - Nov 15 2022

after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells

mitosis in real cells the biology corner - Dec 16 2022

the onion root is also a good place because this is the area where the plant is growing remember that when cells divide each new cell needs an exact copy of the dna in the parent cell this is why mitosis is only visible in cells that are dividing like the whitefish embryo and the onion root tip mitosis can take several hours to complete

lab 9 eukaryotic cell division mitosis and - May 21 2023

exercise 1 observing mitosis under the microscope examine prepared slides of both plant cells onion allium root tip and animal cells whitefish blastula under the microscope at 400x

onion root tip mitosis stages experiment and results - May 09 2022

in general mitosis occurs through several stages that include prophase divided into prophase and prometaphase metaphase anaphase telophase because of the rapid rate at which onion root tips grow as a result of rapid cell division it's possible to observe and identify the different stages of mitosis

core practical 3 observe mitosis in root tips pearson qualifications - Jul 23 2023

observe mitosis in root tips practical activities have been safety checked but not trialled by cleapss users may need to adapt the risk assessment information to local circumstances core practical 3 observe mitosis in root tips objectives know how to prepare a temporary slide of a root tip to observe mitosis

observing mitosis snab biology - Oct 14 2022

feb 7 2017 view under a microscope and identify the stages of mitosis results calculations the percentage of cells in each stage of mitosis can be observed and noted down a mitotic index can also be formed number of cells containing visible chromosomes total number of cells in the field of view conclusion

solved exercise 2 observing mitosis in cells chegg com - Jun 22 2023

exercise 2 observing mitosis in cells in this exercise you will observe the steps of mitosis in both plant and animal cells procedure review the images of onion root tip cells undergoing the different phases of mitosis shown in figure 10 figure 10 *study of mitosis in onion root tip cells cell division process - Jun 10 2022*

to study and demonstrate the mitotic type of cell division using the onion root tip cells mitosis results in the formation of two daughter cells that are identical to each other learn how the experiment is carried out

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