

Starting an assessment - Students

08/08/2023 2:41 pm NZST

Revision Village lets you sit assessments/tasks that are assigned to you by your educators. They are a great way to get access to additional content and track your progress as you go.

On this page

- [Getting started](#)
- [Starting an assessment](#)
- [Using the assessment interface](#)
- [Header and navigation](#)
- [Answering questions](#)
- [Submitting your assessment/task](#)
 - [Submission check](#)
 - [Submission confirmation](#)
- [Next steps](#)

Getting started

Head to revisionvillage.com/assessments/. You should now see your Tasks & Assessments screen. If you have not received any assessments before, this area should be empty. Sit tight – your teacher may have already jumped on the Revision Village wagon and if not, be sure to send them [this link](#)!

**Domantas Sabonis**

My school is not listed



Tasks & Assessments



Insights

COMING SOON

Not a student? Contact support to update

Tasks & Assessments

Filter by status ▾

Exciting news! Your teacher can now create personalised tasks for you.

Let them know this is possible [here](#)

Looks like you don't have any assessments or tasks!

Starting an assessment

If your teacher has assigned you a task or assessment, click the link and you should land on a page like the one pictured below. You will only be able to start an assessment if you are logged in. If you don't have an account with us, that's fine – it's free to create one. Sign up and come back to the assessment link, and you should be able to start the assessment.



You only need a free account to start this assessment!

Email

Password

Submit

[Reset password](#)

Don't have an account? [Sign up](#)

General

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The Origin of Cells

Due Date: Friday, 04 Aug 2023 at 12:00 PM

Total Questions: 8

Total Marks: 10 Marks

Video Solutions will be shown at the end of the task or assessment
You will be required to provide answers on Revision Village

Start Assessment

Before you start, you will be shown the assessment/task parameters such as:

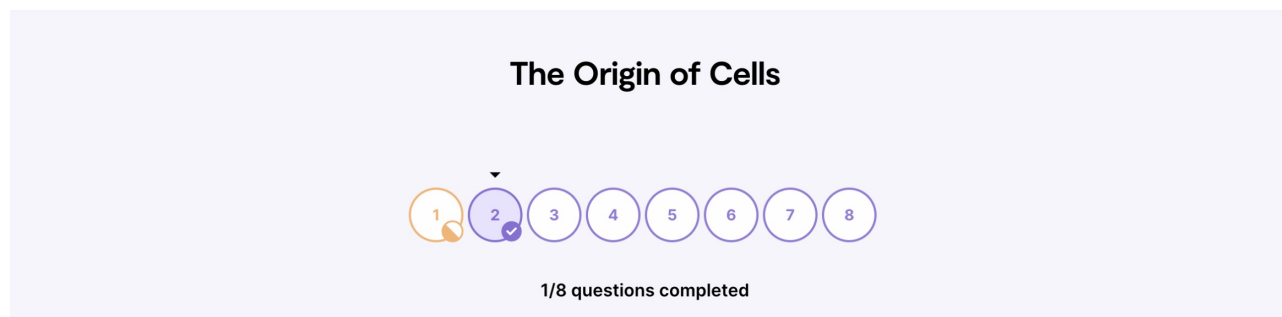
- **Due date:** Date the assessment/task must be submitted by.

- **Maximum time:** You may sit the assessment/task any time before the due date, but you must answer all questions within the cumulative maximum time set by your teacher. If you go beyond this time, your teacher will be notified but you will still be able to submit.
- **Total questions:** Total questions allocated in this assessment/task.
- **Total marks:** Maximum marks available in this assessment/task.
- **If responses are required:** Your teacher may require you to provide your answers on paper or another platform. If that is the case, you will only be able to see the question and no answer area will be presented.
- **If video solutions are visible during or after the assessment or never:** Depending on your learning goals, your teacher may or may not allow you to see solution videos.

Pay close attention to these details as they may help you as you progress through your test.

Using the assessment interface

Header and navigation



Throughout the assessment/task, you will always see the name of the test and all questions.

Underneath the name, is the question navigation bar. With it you can see what question you are currently on, if it has been viewed and completed. If you have viewed the question but not answered all questions, it will be marked as incomplete (yellow). If you have not viewed a question at all, there will be no status shown. We always give you a visual and written confirmation of how many questions are complete.

You can click on a question to jump to to it.

Answering questions

The below interface represents what you would see when attempting to answer questions.

On the left, you have the question and to the right, you have the answering area.

The answer boxes allow 3 types of input methods:

- Plain text: Simply type in your answers as-is.
- Type Math: If you would like to type using symbols and mathematical/scientific input style. Learn: [basics](#) or [for advanced users](#).
- Handwrite Math: If you prefer to use a tablet, you can write as if you are writing on paper using this tool. Learn more [here](#).

Click the "fx help" button at any time should you need to refer to these again.

Question 4

[Maximum mark: 14]

The first two terms of an infinite geometric sequence, in order, are

$$3 \log_3 x, 2 \log_3 x, \text{ where } x > 0.$$

(a) Find the common ratio, r . [2]

(b) Show that the sum of the infinite sequence is $9 \log_3 x$. [3]

The first three terms of an arithmetic sequence, in order, are

$$\log_3 x, \log_3 \frac{x}{3}, \log_3 \frac{x}{9}, \text{ where } x > 0.$$

(c) Find the common difference d , giving your answer as an integer. [3]

Let S_6 be the sum of the first 6 terms of the arithmetic sequence.

(d) Show that $S_6 = 6 \log_3 x - 15$. [3]

(e) Given that S_6 is equal to one third of the sum of the infinite geometric sequence, find x , giving your answer in the form a^p where $a, p \in \mathbb{Z}$. [3]

Answers

a

b

c

d

e

Jump to the **last question** to submit

We understand that you might want a larger working space, and to help, each answer box can be expanded using the arrows in the top right hand corner of each answer box.

Here is the expanded view of the question. You can also navigate through questions using this view.

Referring to the labels below:

1. Indicator of the current question
2. Proceed to the next question part
3. Proceed to the next question

The screenshot shows the RevisionVillage interface. At the top, there is a navigation bar with the logo, 'BETA' badge, 'Tasks & Assessments', 'Subjects' dropdown, 'Upgrade to Gold!', and a user profile 'Domantas'. The main content area is titled 'Question 2a' and includes a question text and two parts: (a) and (b). To the right of the question is a large answer box with options for 'Type Math', 'Handwrite Math', and 'Draw Diagram'. Below the answer box is a navigation bar with buttons for 'Q1', 'Q2a', 'Q2b', and 'Q3'. A red curved arrow labeled '3' points from the 'Q3' button back to the 'Q2a' button, indicating a navigation path. A red circle labeled '1' is above the 'Q2a' button, and a red circle labeled '2' is above the 'Q2b' button. A small 'fx help' button is visible in the top right of the question area.

revisionvillage BETA Tasks & Assessments Subjects Upgrade to Gold! Domantas ×

Question 2a ×

[Maximum mark: 8] fx help ▾

It is known that the number of trees in a small forest will decrease by 5 % each year unless some new trees are planted. At the end of each year, 600 new trees are planted to the forest. At the start of 2021, there are 8200 trees in the forest.

(a) Show that there will be roughly 9060 trees in the forest at the start of 2026. [4]

(b) Find the approximate number of trees in the forest at the start of 2041. [4]

Type Math Handwrite Math Draw Diagram

←

3

1 2

« Q1 Q2a Q2b Q3 »

Jump to the last question to submit

You can also collapse the question area to expand the answer box even more.

The screenshot shows the RevisionVillage assessment interface. At the top, the logo 'revisionvillage' is on the left, and navigation links 'Tasks & Assessments', 'Subjects', 'Upgrade to Gold!', and 'Courtney' are on the right. The main content area is titled 'Question 4a' and features a large, empty light blue workspace for the answer. On the left side of the workspace, there is a vertical list of question parts: '(a):', '(b):', '(c):', '(d):', and '(e):'. Above the workspace, there are three buttons: 'Type Math', 'Handwrite Math', and 'Draw Diagram'. A 'fx help' button is located in the top right corner of the workspace. At the bottom of the workspace, there are navigation buttons: '<< Q3', 'Q4a', 'Q4b >', and 'Q5 >>'. The interface is clean and modern, with a focus on the answer area.

Submitting your assessment/task

Once you have reached the last question, the Submit button will appear.

Sequences and Series Test



0/5 questions completed

Question 5

[Maximum mark: 15]

The first three terms of an infinite geometric sequence are $k - 4$, 4 , $k + 2$, where $k \in \mathbb{Z}$.

- (a) (i) Write down an expression for the common ratio, r .
(ii) Hence show that k satisfies the equation $k^2 - 2k - 24 = 0$. [5]
- (b) (i) Find the possible values for k .
(ii) Find the possible values for r . [5]
- (c) The geometric sequence has an infinite sum.
(i) Which value of r leads to this sum. Justify your answer.
(ii) Find the sum of the sequence. [5]

Answers

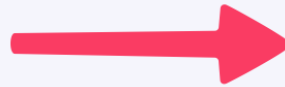
*f*x help ▾

a ↗

b ↗

c ↗

← Previous



Submit Assessment

If you are not at the last question, you can jump to last the question and find the submit button there



0/5 questions completed

Question 2

[Maximum mark: 8]

It is known that the number of trees in a small forest will decrease by 5 % each year unless some new trees are planted. At the end of each year, 600 new trees are planted to the forest. At the start of 2021, there are 8200 trees in the forest.

- (a) Show that there will be roughly 9060 trees in the forest at the start of 2026. [4]
- (b) Find the approximate number of trees in the forest at the start of 2041. [4]

Answers

f_x help \downarrow

a

b

[← Previous](#)

[Next →](#)

[Jump to the last question to submit](#)

Submission check

Once you have clicked the submit button, you will be presented with a confirmation box. If you have some questions that are either partially complete or have no answers, they will be shown here. You can click on the questions here to be direct there.

This is your final opportunity before submitting. After clicking submit, do not close your screen until you have received confirmation of submission.

Submit assessment

Looks like you have some questions that are either partially complete or have no answers

Click on the questions below to go to them



You will not be able to make any changes once you submit this assessment

Yes, submit

Cancel

Submission confirmed

Once you have reached this screen, your assessment has been submitted and sent to your teacher.

The Origin of Cells

Congratulations!
The Origin of Cells has been submitted!



The Origin of Cells is now being marked
In the meantime you can view video solutions to the
questions below

[View Video Solutions](#)[Back to assessments](#)

Question 8

Which of the following is involved in

- A. Rhodopsin
- B. Rubisco
- C. Collagen
- D. Insulin

[← Previous](#)[Submit Assessment](#)

Next steps

Fantastic work! [View your assessment or task](#)