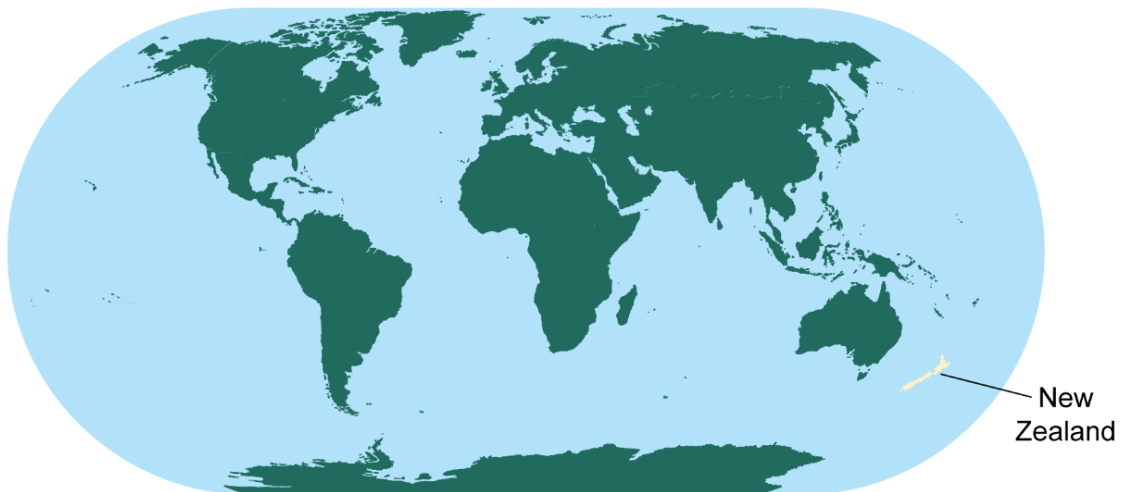




Question 1 (2 marks)



Kaikōura is a region in New Zealand. The original inhabitants in New Zealand are called Māori. 90 % of the tourism activities in Kaikōura are owned and operated by Māori. Many tourist activities in the area focus on Māori culture and the spiritual connection between the land and people.



Look at the topographic map below showing Kaikōura and answer the questions that follow.

Topographic map



Topographic map 1:250 000 Legend





ROADS AND TRACKS

- Two lanes (includes passing lanes)..... 
- Narrow road 
- Vehicle track 
- Foot track 

WATER FEATURES






- Coastal rocks..... 
- Sand and mud 
- Sand 
- Swamp 
- Breakwater, wharf..... 

VEGETATION FEATURES


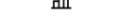
- Native forest..... 
- Exotic forest 



MISCELLANEOUS

- Residential area 
- Large buildings 
- Building or group of buildings..... 
- Race track 
- Mast 

RELIEF FEATURES

- Index contour 
- Intermediate contours 
- Depression contours 
- Elevation in metres 
- Cliff 
- Rock outcrops 



Question 1a (1 mark)

Identify the coastal feature located at Point Kean at grid reference 5003. This is marked by a black box.

B I | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles ▾ | 📱





Question 1b (1 mark)

The Māori Leap Caves are located at grid reference 4504. These are marked with a purple circle. The racecourse is located at grid reference 4604. This is marked with a pink circle.

State the compass direction from the Māori Leap Caves to the racecourse.

B *I* | ← → | x₂ x^e | ☰ ☷ | Ω Σ | Styles ▾ | 📱





Question 2 (4 marks)



Tourist numbers to Kaikōura have increased over time. The increased number of tourists is causing damage to the natural environment in the area of South Bay, located at grid reference 4702, and the South Bay Lookout Walk, located at grid reference 4802.

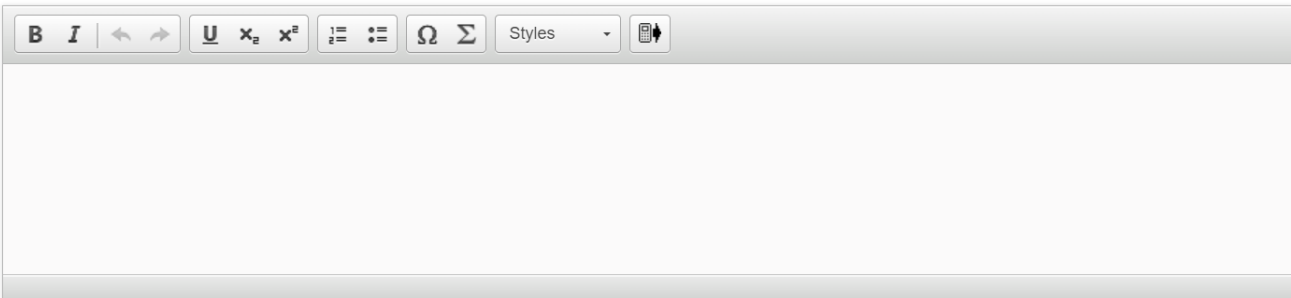


The tourist operators have created two options to manage the increase in tourists. Their aim is to prevent damage to the natural environment while still allowing tourism. The two options are given below.

Option A: Charge tourists a fee to enter South Bay and the Lookout Walk and set a maximum number of tourists allowed into the area each day.

Option B: Build an additional car park and viewing platform for the increased number of tourists. This is marked “B”, located at grid reference 4702.

With reference to the map, **explain one** positive impact of option A **or** option B.



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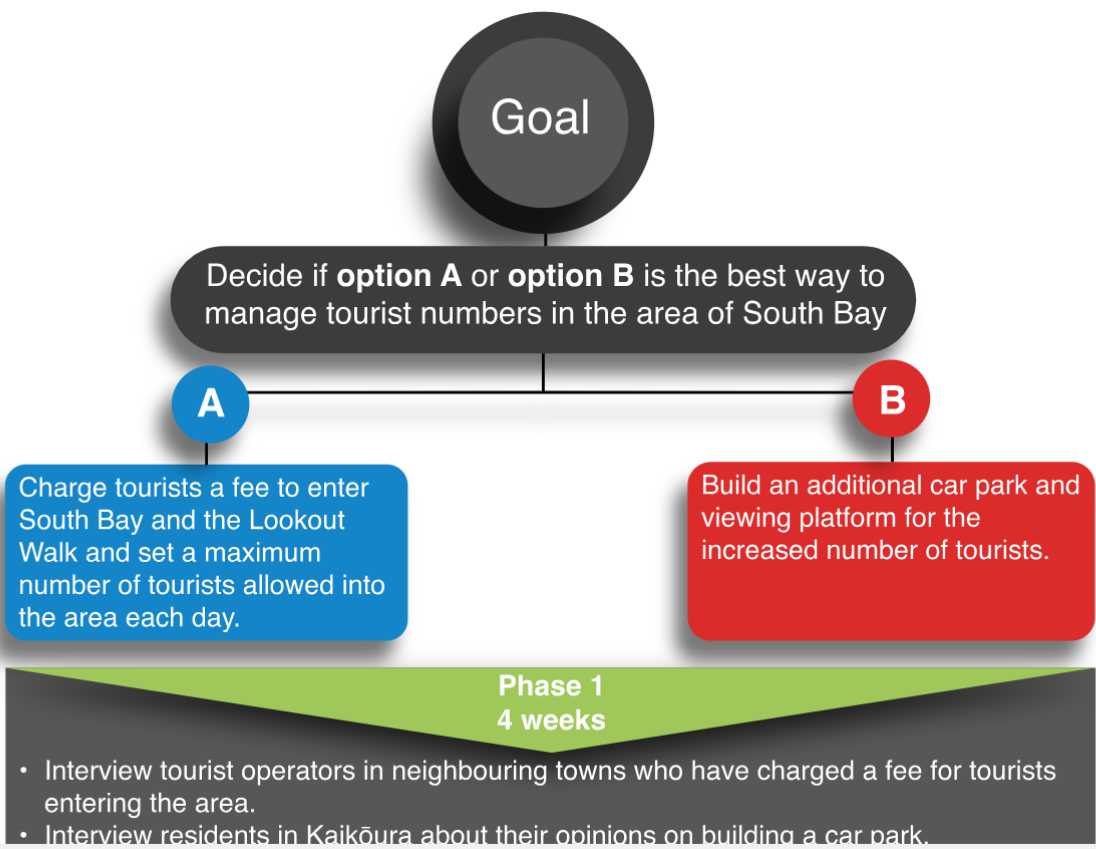
Question 3 (8 marks)

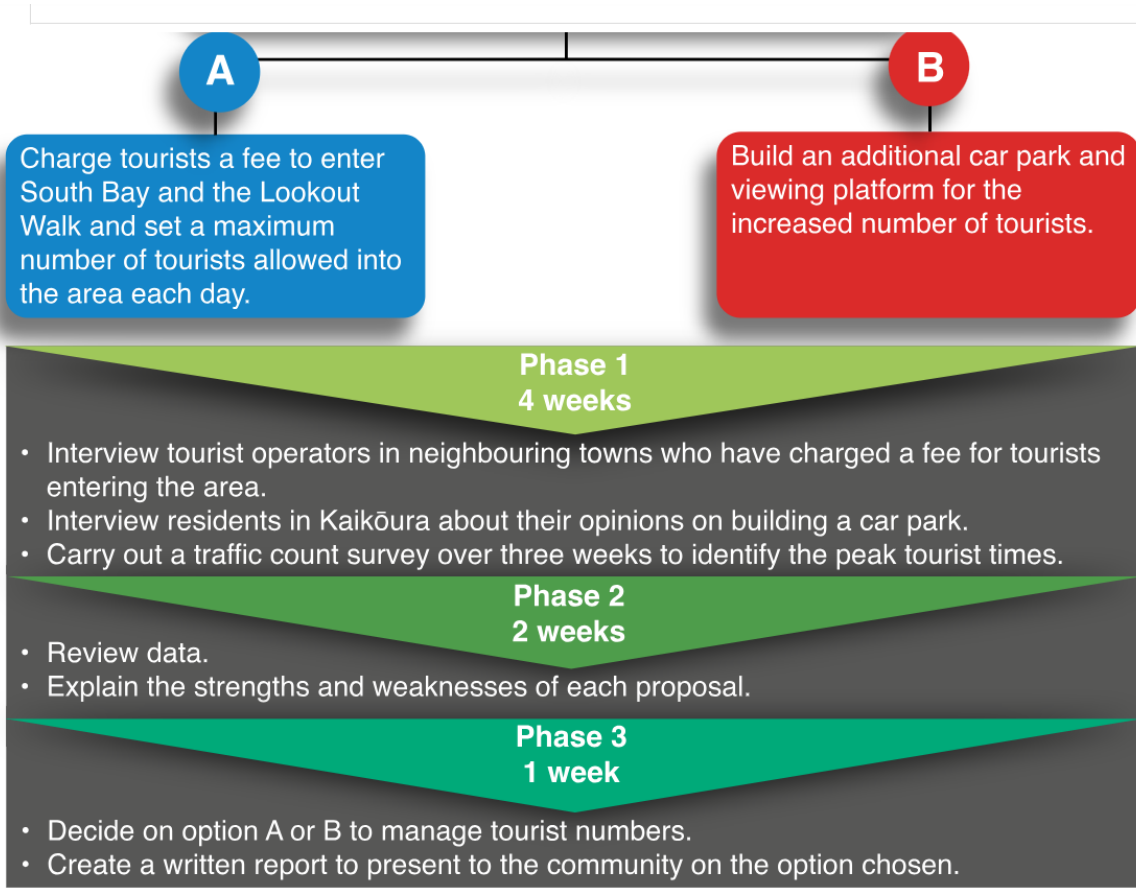


The local tourist operators in Kaikōura are now investigating option A and option B (shown below) to decide which one they will choose. The group of 12 tourist operators have eight weeks to make their final decision.

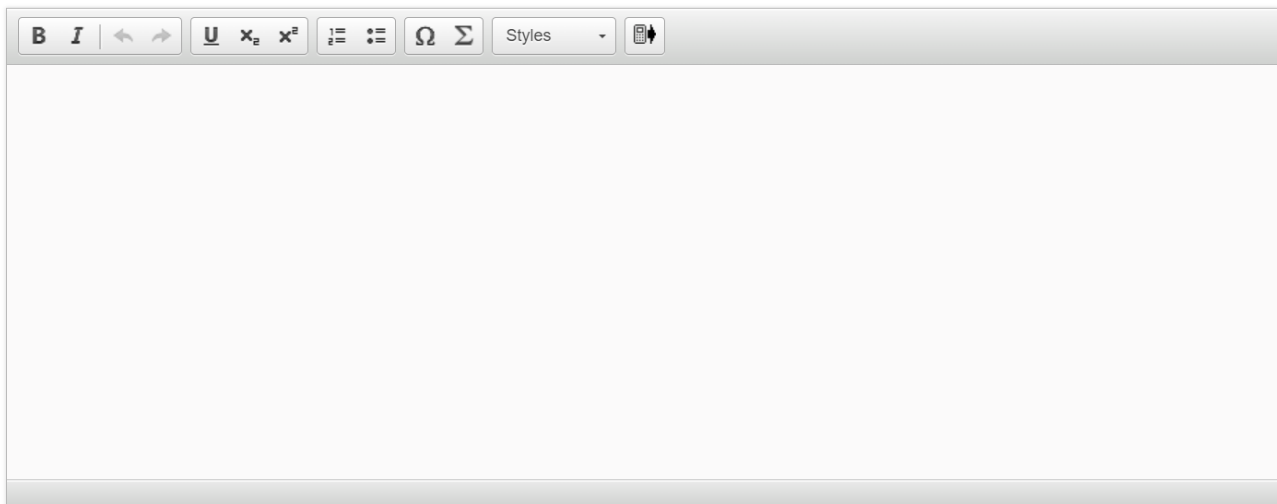
They have created the following action plan to investigate the options. You will be asked to evaluate this action plan.







Evaluate the tourist operators' action plan.



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Question 4 (12 marks)



Now that you have explored the management of tourism in Kaikōura, you will plan an investigation into the future of sustainable tourism in **another** location of your choice.

The information collected will be used to write an article for a tourist magazine exploring sustainable tourism.

You will use the statement of inquiry below to plan your investigation.

Statement of Inquiry:

Global interactions can change identities and relationships.



Question 4a (2 marks)

With reference to the statement of inquiry, **formulate** a clear and focused research question for your investigation.

B *I* | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles ▾ | 📱





Question 4b (4 marks)

Justify the importance of investigating your research question.

Statement of Inquiry:

Global interactions can change identities and relationships.

B *I* | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles ▾ | 📱

[Empty text area]





Question 4c (2 marks)

Your teacher has suggested including a GIS map to show tourist numbers for the past 10 years in your chosen location.

Outline one benefit or limitation of including this GIS map in your investigation.

B *I* | ← → | x_2 x^2 | \equiv \equiv | Ω Σ | Styles ▾ |





Question 4d (2 marks)

List two secondary sources that could be used in your investigation, other than GIS maps.

B *I* | ← → | x₂ x² | $\frac{1}{2}$ $\frac{3}{4}$ | Ω Σ | Styles ▾ |





Question 4e (2 marks)

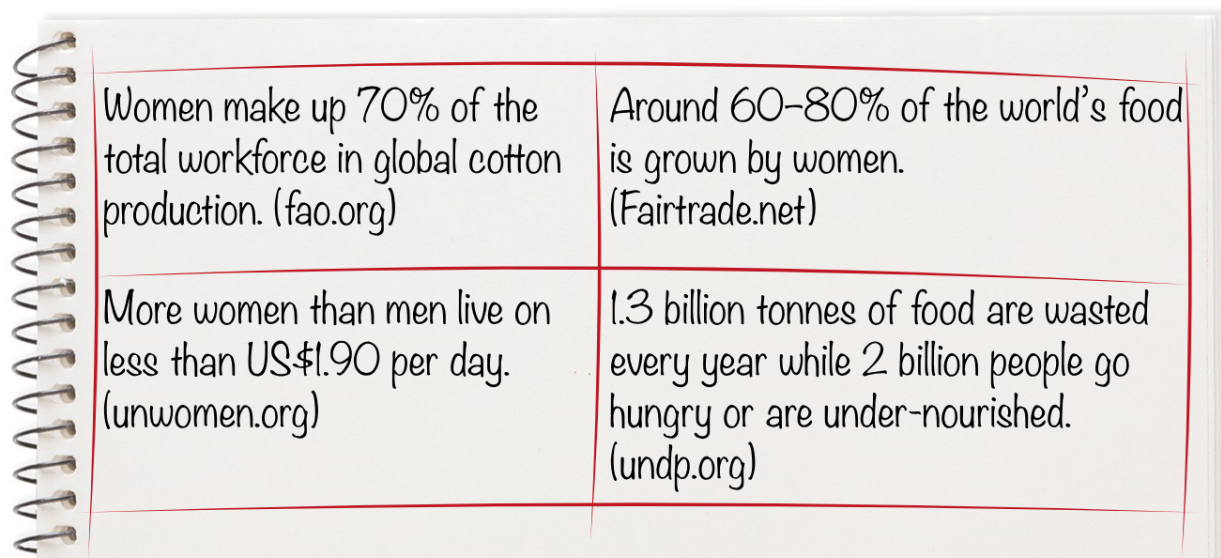
Outline one challenge you could face in your investigation.

B *I* | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles ▾ | 📱



Question 5 (18 marks)

Look at **Source A** below and answer the question that follows.



Women make up 70% of the total workforce in global cotton production. (fao.org)	Around 60-80% of the world's food is grown by women. (Fairtrade.net)
More women than men live on less than US\$1.90 per day. (unwomen.org)	1.3 billion tonnes of food are wasted every year while 2 billion people go hungry or are under-nourished. (undp.org)

You are a researcher working for the [World Trade Organization \(WTO\)](#) and have found the four statistics shown above.

As a result, you have decided to write a report to **explain** how sustainable trade can contribute to progress in achieving **one** of the Sustainable Development Goals listed below.

You will present your report to government officials and other interested groups.

From the list below, choose **one** of the Sustainable Development Goals you are going to focus on in your report.



- Sustainable Development Goal 1: No poverty
- Sustainable Development Goal 5: Gender equality
- Sustainable Development Goal 12: Responsible consumption and production

To write a report, the following elements are required:

- A title

- Sustainable Development Goal 5: Gender equality
- Sustainable Development Goal 12: Responsible consumption and production

To write a report, the following elements are required:

- A title
- Subheadings
- Detailed explanations, evidence and examples
- Recommendations and/or a conclusion

Write a title for your report here:

Write the main body and subheadings of your report here:

B *I* | ← → | U x_2 x^a | $\frac{1}{2}$ $\frac{3}{4}$ | Ω Σ | Styles ▾ |



Question 6 (4 marks)



Source B shows four human activities that threaten Earth's biomes. Look at the images and answer the question that follows.



Source B

Over-exploitation: unsustainable resource consumption



Source B

Pollution



Source B

Pollution



Deforestation



Land-use change



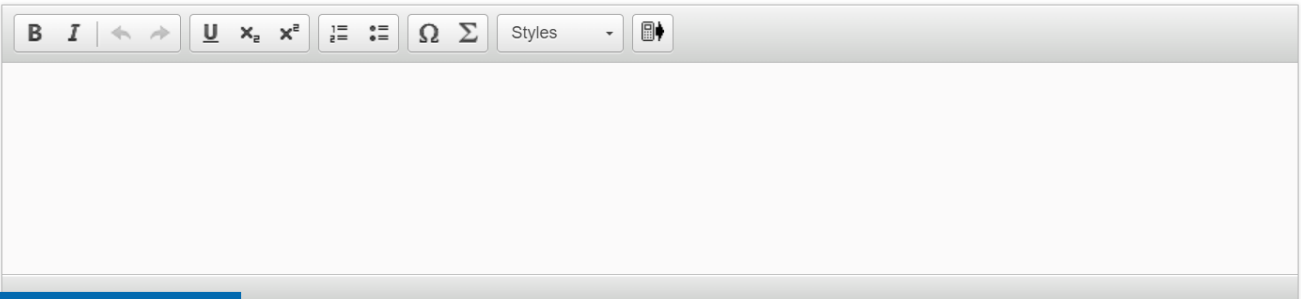
Land-use change



For one of the biomes listed below, **justify** which of the human activities shown in **Source B** is the greatest threat to this biome.

Choose **one** biome.

- Aquatic
- Deserts
- Forests
- Grasslands
- Arctic/tundra



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Question 7 (8 marks)

Source C is an infographic about the Coral Triangle, a system of biodiverse reefs. Study the source and answer the questions that follow.

Source C

The Coral Triangle: The World's Centre of Marine Biodiversity



DIRECT THREAT TO REEFS BY LOCAL HUMAN ACTIVITIES:

THE CORAL TRIANGLE
MORE THAN

THE GLOBAL
AVERAGE

Scroll down to continue

DIRECT THREAT TO REEFS BY LOCAL HUMAN ACTIVITIES:

THE CORAL TRIANGLE
MORE THAN

85%



THE GLOBAL
AVERAGE

60%



79%

DECLINE IN REEF
FISH REPRODUCTION



STATUS OF



SKIPJACK TUNA



YELLOWFIN TUNA



BIGEYE TUNA



Not
overfished



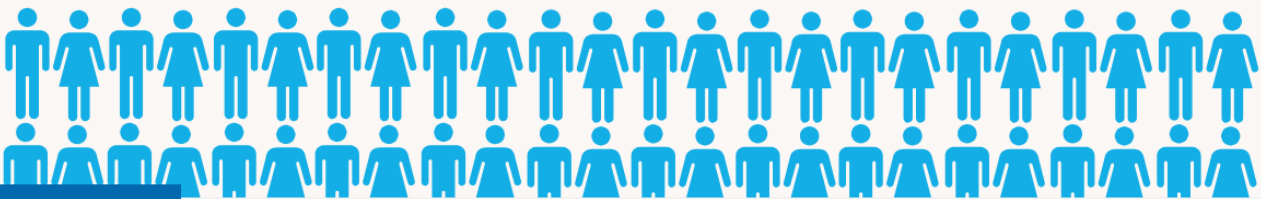
Overfished

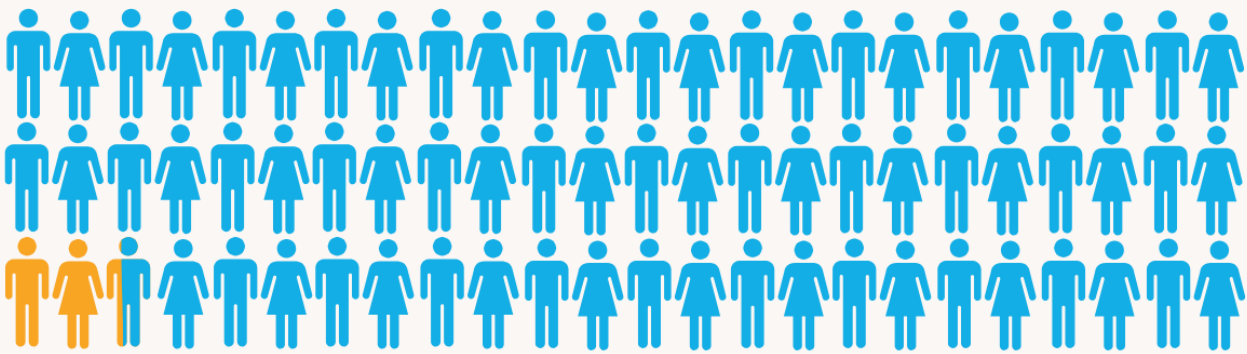


Fully
exploited

GLOBAL DEMAND FOR TUNA IS INCREASING THE AMOUNT OF TUNA
BEING CAUGHT IN THE CORAL TRIANGLE.

THE CORAL TRIANGLE SUSTAINS
120 MILLION PEOPLE





APPROXIMATELY

2.25 MILLION

ARE FISHERS WHO DEPEND ON
HEALTHY SEAS TO MAKE A LIVING

Infographic created by www.savingcoralreefs.org for World Reef Day, 2020.



Question 7a (2 marks)

Outline the purpose of **Source C**.

B **I** | ← → | **U** x_2 x^e | $\frac{1}{2}$ $\frac{3}{4}$ | Ω Σ | Styles - |





Question 7b (3 marks)

Explain one value of **Source C** to a marine biologist studying the impact of fishing in the Coral Triangle.

B *I* | ↶ ↷ | x₂ x² | ≡ ≡ | Ω Σ | Styles ▾ | 📱





Question 7c (3 marks)

Explain one limitation of **Source C** to a [marine biologist](#) studying the impact of fishing in the Coral Triangle.

Wiris Editor



Question 8 (24 marks)

To what extent is the sustainable management of biome(s) more important than economic development?

In a well-structured essay, you must:

- refer to **at least one** biome
- provide explanations and examples to support your arguments
- consider different perspectives.

B *I* | ← → | \times_2 \times^2 | \equiv \equiv | Ω Σ | Styles |