

Prima
CFL-16504

Prima

CPL-19504









PROLOGUE TO THE HISTORY OF THE WORLD

101

Chapter 1: The World of the Ancients

The world of the ancients was a world of great diversity and complexity. It was a world of many different cultures, religions, and political systems. The ancients were the first to create a world of their own, and their legacy is still with us today.

THE HISTORY OF THE WORLD

THE HISTORY OF THE WORLD: A BRIEF HISTORY OF THE WORLD

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QUESTION 1 (10 MARKS)

10

Consider the following function $f(x)$:

$f(x) = \begin{cases} x^2 + 2x + 1 & \text{if } x < 0 \\ x^2 - 2x + 1 & \text{if } x \geq 0 \end{cases}$

QUESTION 1.1 (5 MARKS)

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Graph the function $f(x)$ for $x \in [-2, 2]$.
 Indicate the domain and range of the function.

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PRODUCTION OF PROTEIN



The basic strategy (2019) - 19 min

The overall strategy is to produce a recombinant protein in a host cell, purify it and then analyse it.

Production of recombinant protein (20)

Production of recombinant protein (20)

1. The first step is to clone the gene into a vector. The vector is a circular DNA molecule that can replicate in the host cell.

2. The second step is to transform the host cell with the recombinant vector.

3. The third step is to induce the expression of the recombinant protein. This is done by adding an inducer to the culture.

4. The fourth step is to harvest the recombinant protein. This is done by centrifuging the cells and purifying the protein.

5. The fifth step is to analyse the recombinant protein. This is done by SDS-PAGE and Western blotting.

6. The sixth step is to store the recombinant protein. This is done by lyophilizing the protein.

7. The seventh step is to use the recombinant protein. This is done by adding it to the assay.

8. The eighth step is to clean up the assay. This is done by washing the assay with buffer.

9. The ninth step is to read the assay. This is done by measuring the absorbance of the assay.

10. The tenth step is to calculate the protein concentration. This is done by comparing the absorbance to a standard curve.

2019

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MANUAL DE INSTRUCCIONES

11

Se debe seguir siempre las instrucciones

de los fabricantes de los productos que se instalan.

Los procedimientos de instalación de los productos deben seguirse siempre.

Los procedimientos de instalación de los productos

INFORMACIÓN ADMINISTRATIVA

Procedimientos administrativos de instalación

Se debe seguir siempre las instrucciones de los fabricantes de los productos que se instalan. Los procedimientos de instalación de los productos deben seguirse siempre.

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QUESTION

Instructions de fonctionnement

1. Introduction

- 1.1. Généralités
- 1.2. Description
- 1.3. Caractéristiques techniques

2. Précautions

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.

3. Fonctionnement

- 3.1. Mise en marche
- 3.2. Utilisation
- 3.3. Arrêt
- 3.4. Maintenance
- 3.5. Dépannage

4. Sécurité

- 4.1. Précautions
- 4.2. Symptômes
- 4.3. Actions

En cas de panne, consultez le manuel de maintenance ou contactez le service client.

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.

5. Maintenance

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.

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6. Accessoires

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7. Informations complémentaires

- 7.1. Garantie
- 7.2. Service client

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.

- 7.3. Notes
- 7.4. Références
- 7.5. Contact
- 7.6. Informations

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.

8. Informations

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.

9. Sécurité

9.1. Précautions

Il est recommandé de lire attentivement les instructions de fonctionnement avant d'utiliser l'appareil pour éviter tout risque de blessure ou de dommage.



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9.2. Symptômes

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QUESTION

QUESTION TYPE

1. Scenario

- 1. Scenario
- 2. Multiple choice
- 3. Short answer
- 4. Essay

2. Question

1. The following table shows the sales revenue for a company in 2018 and 2019.

Table 1: Sales Revenue

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

3. Answer

- 1. Answer
- 2. Answer
- 3. Answer

4. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

5. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
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6. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
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7. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

8. The following table shows the sales revenue for a company in 2018 and 2019.

- 1. Answer
- 2. Answer
- 3. Answer

9. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

10. Answer

11. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

12. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

13. The following table shows the sales revenue for a company in 2018 and 2019.

Year	Q1	Q2	Q3	Q4
2018	100	120	150	180
2019	110	130	160	190

14. The following table shows the sales revenue for a company in 2018 and 2019.

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2018	100	120	150	180
2019	110	130	160	190

PROBABILITY AND STATISTICS

11

PROBABILITY AND STATISTICS (CONTINUED)

The following are some of the most important results in probability and statistics. They are given in the form of a list of statements and are to be proved.

PROBABILITY AND STATISTICS (CONTINUED)

PROBABILITY AND STATISTICS (CONTINUED) - STATEMENTS

Let A and B be two events in a sample space S . Then the following are the most important results in probability and statistics. They are given in the form of a list of statements and are to be proved.

1. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$

2. $P(A \cap B) = P(A)P(B)$ if A and B are independent events.

3. $P(A \cup B) = P(A) + P(B)$ if A and B are mutually exclusive events.

4. $P(A \cap B) = P(A)P(B)$ if A and B are independent events.

5. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ if A and B are not independent events.

6. $P(A \cap B) = P(A)P(B)$ if A and B are independent events.

7. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ if A and B are not independent events.

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15. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ if A and B are not independent events.

16. $P(A \cap B) = P(A)P(B)$ if A and B are independent events.

17. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ if A and B are not independent events.

18. $P(A \cap B) = P(A)P(B)$ if A and B are independent events.

19. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ if A and B are not independent events.

20. $P(A \cap B) = P(A)P(B)$ if A and B are independent events.

2.2.2.2.2

Ergebnisvergleich: Gesamtgesellschaft

1. Ausgangslage

- 1.1.1.1.1
- 1.1.1.1.2
- 1.1.1.1.3
- 1.1.1.1.4

2. Bewertung

Ergebnisvergleich: Gesamtgesellschaft

- 2.1.1.1.1
- 2.1.1.1.2
- 2.1.1.1.3
- 2.1.1.1.4

3. Zusammenfassung

- 3.1.1.1.1
- 3.1.1.1.2
- 3.1.1.1.3

Ergebnisvergleich: Gesamtgesellschaft

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Ergebnisvergleich: Gesamtgesellschaft

Ergebnisvergleich: Gesamtgesellschaft

Ergebnisvergleich: Gesamtgesellschaft

4. Fazit

- 4.1.1.1.1
- 4.1.1.1.2

Ergebnisvergleich: Gesamtgesellschaft

- 5.1.1.1.1
- 5.1.1.1.2
- 5.1.1.1.3

Ergebnisvergleich: Gesamtgesellschaft

6. Zusammenfassung

Ergebnisvergleich: Gesamtgesellschaft

7. Zusammenfassung

Ergebnisvergleich: Gesamtgesellschaft

Ergebnisvergleich: Gesamtgesellschaft



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Ergebnisvergleich: Gesamtgesellschaft

Ergebnisvergleich: Gesamtgesellschaft

8. Zusammenfassung

Ergebnisvergleich: Gesamtgesellschaft

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- 1.2.2.2.2.2.2.2.1.1.3
- 1.2.2.2.2.2.2.2.1.1.4
- 1.2.2.2.2.2.2.2.1.1.5

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- 1.2.2.2.2.2.2.2.1.2.1
- 1.2.2.2.2.2.2.2.1.2.2
- 1.2.2.2.2.2.2.2.1.2.3

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- 1.2.2.2.2.2.2.2.5

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2.2.2.2.2.2.2.3.1.1

2.2.2.2.2.2.2.3.1.1.1

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2.2.2.2.2.2.2.3.1.2.1



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2.2.2.2.2.2.2.3.1.2.4

2.2.2.2.2.2.2.3.1.2.5

2.2.2.2.2.2.2.3.1.3

2.2.2.2.2.2.2.3.1.3.1

2.2.2.2.2.2.2.3.1.3.2

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2.2.2.2.2.2.2.3.1.3.2.3

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BRAND-NAME-DRUGS

17

Always remember: NEVER stop medicine
 unless advised to do so by your healthcare provider.
 In other words: never stop your medicine

BRAND-NAME-DRUGS

Some health products do not contain medicine.

Examples of products that do not contain medicine:

• Inhalers for asthma or chronic obstructive pulmonary disease (COPD)

• Inhalers for acute asthma attacks or COPD exacerbations

• Inhalers for chronic obstructive pulmonary disease (COPD)

• Inhalers for acute asthma attacks or COPD exacerbations

• Inhalers for chronic obstructive pulmonary disease (COPD)

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• Inhalers for acute asthma attacks or COPD exacerbations

• Inhalers for chronic obstructive pulmonary disease (COPD)

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• Inhalers for chronic obstructive pulmonary disease (COPD)

• Inhalers for acute asthma attacks or COPD exacerbations

• Inhalers for chronic obstructive pulmonary disease (COPD)

LETICIAJAJA] INTRUKCIA

19

Ukrajnā, kurā ir iekļautas arī citas valodas, kas ir svarīgas, lai nodrošinātu, ka visi ir informēti par šīs politikas mērķiem.

INFORMĀCIJA] BĒRŅU KLĀSTI

Šajā politikā ir iekļauta informācija par šīs politikas mērķiem.

Informācija ir pieejama arī šīs politikas mērķu izstrādāšanā.

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QUESTIONNAIRE**196**

Do not write "NONE" unless you are
 absolutely sure that you do not have the specified symptoms
 or do not perform the specified activities.

SECTION 1: GENERAL INFORMATION

Are you a regular smoker or occasional smoker?

Yes or No (circle one)
 If Yes, how many cigarettes per day?

Do you use any tobacco products other than cigarettes?

Yes or No (circle one)

If Yes, what kind of tobacco products do you use?

Do you use any tobacco products other than cigarettes?

Yes or No (circle one)

If Yes, what kind of tobacco products do you use?

Do you use any tobacco products other than cigarettes?

Yes or No (circle one)

If Yes, what kind of tobacco products do you use?

Do you use any tobacco products other than cigarettes?

Yes or No (circle one)

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Yes or No (circle one)

If Yes, what kind of tobacco products do you use?

Do you use any tobacco products other than cigarettes?

Yes or No (circle one)

If Yes, what kind of tobacco products do you use?

Do you use any tobacco products other than cigarettes?

Yes or No (circle one)

If Yes, what kind of tobacco products do you use?

2. Aufgaben

Erstellung der Kurvenintegrale

1. Skizzen

1. Kurve
2. Kurvenlänge
3. Kurvenlänge
4. Kurve

2. Messung

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden** **und** **die** **Skizze**

a) Kurve der Strecke

1. Kurve der Strecke
2. Kurve der Strecke
3. Kurve der Strecke
4. Kurve der Strecke
5. Kurve der Strecke
6. Kurve der Strecke

b) Kurve der Strecke

1. Kurve der Strecke
2. Kurve der Strecke
3. Kurve der Strecke
4. Kurve der Strecke

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

c) Kurve der Strecke

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**

d) Kurve der Strecke

1. Kurve der Strecke

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

1. Kurve
2. Kurvenlänge
3. Kurve

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**

e) Kurve der Strecke

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

f) Kurve der Strecke

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**



Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

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Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

g) Kurve

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**

h) Kurve der Strecke

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

Die Kurve besitzt die Parameterdarstellung
es soll die Kurvenlänge L **bestimmt werden**
und **die** **Skizze**

MEMORIA SULLE ACQUISIZIONI

18

La memoria è un sistema complesso, "distribuito"
 nell'intero cervello, nel quale il cervello rappresenta un sistema aperto.
 (La memoria non è un'idea, ma un processo dinamico)

MEMORIA E APPRENDIMENTO

Modello dell'acquisizione e dell'organizzazione dell'informazione

Esistono tre livelli di elaborazione dell'informazione:
 1. Memoria sensoriale (registra informazioni sensoriali)
 2. Memoria a breve termine (registra informazioni sensoriali)
 3. Memoria a lungo termine (registra informazioni sensoriali)

La memoria sensoriale è la prima memoria a breve termine.

La memoria a breve termine è la seconda memoria a breve termine.

La memoria a lungo termine è la terza memoria a breve termine.

La memoria a lungo termine è la quarta memoria a breve termine.

La memoria a lungo termine è la quinta memoria a breve termine.

La memoria a lungo termine è la sesta memoria a breve termine.

La memoria a lungo termine è la settima memoria a breve termine.

La memoria a lungo termine è l'ottava memoria a breve termine.

La memoria a lungo termine è la nona memoria a breve termine.

La memoria a lungo termine è la decima memoria a breve termine.

La memoria a lungo termine è l'undicesima memoria a breve termine.

La memoria a lungo termine è la dodicesima memoria a breve termine.

La memoria a lungo termine è la tredicesima memoria a breve termine.

La memoria a lungo termine è la quattordicesima memoria a breve termine.

La memoria a lungo termine è la quindicesima memoria a breve termine.

La memoria a lungo termine è la sedicesima memoria a breve termine.

La memoria a lungo termine è la diciassettesima memoria a breve termine.

La memoria a lungo termine è la diciottesima memoria a breve termine.

La memoria a lungo termine è la diciannovesima memoria a breve termine.

La memoria a lungo termine è la ventesima memoria a breve termine.

La memoria a lungo termine è la ventunesima memoria a breve termine.

La memoria a lungo termine è la ventiduesima memoria a breve termine.

La memoria a lungo termine è la ventitreesima memoria a breve termine.

La memoria a lungo termine è la ventiquattresima memoria a breve termine.

La memoria a lungo termine è la venticinquesima memoria a breve termine.

La memoria a lungo termine è la ventiseiesima memoria a breve termine.

La memoria a lungo termine è la ventisettesima memoria a breve termine.

La memoria a lungo termine è la ventitreesima memoria a breve termine.

Algorithmen

Produktionsalgorithmus

1. Ausgangspunkt

- Start
- Produktionsregeln
- Produktionsalgorithmus
- Ende

2. Beispiel

Produktionen: $a \rightarrow ab$, $a \rightarrow ba$, $a \rightarrow a$
Start: a
Ergebnis: $a, ab, ba, aab, aba, baa, \dots$

3. Eigenschaften

- Produktionen sind deterministisch
- Produktionen sind endlich
- Produktionen sind endlich
- Produktionen sind endlich
- Produktionen sind endlich

4. Anwendungsgebiete

- Formale Sprachen
- Formale Grammatiken
- Formale Logik

Produktionen sind endlich, deterministisch und endlich.

Produktionen sind endlich, deterministisch und endlich.

Produktionen sind endlich, deterministisch und endlich.

Produktionen sind endlich, deterministisch und endlich.

5. Anwendungsgebiete

Produktionen sind endlich, deterministisch und endlich.

6. Anwendungsgebiete

Produktionen sind endlich, deterministisch und endlich.

Produktionen

- Produktionen
- Produktionen

Produktionen sind endlich, deterministisch und endlich.

Produktionen

Produktionen sind endlich, deterministisch und endlich.

6. Anwendungsgebiete

Produktionen sind endlich, deterministisch und endlich.

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Produktionen sind endlich, deterministisch und endlich.

Produktionen sind endlich, deterministisch und endlich.

Produktionen sind endlich, deterministisch und endlich.

Produktionen sind endlich, deterministisch und endlich.

6. Anwendungsgebiete

Produktionen sind endlich, deterministisch und endlich.

QUESTION

Complex conjugate

QUESTION

Find the complex conjugate of $z = 2 + 3i$.

ANSWER

The complex conjugate of $z = 2 + 3i$ is $\bar{z} = 2 - 3i$.

QUESTION

Find the complex conjugate of $z = 5 - 2i$.

ANSWER

The complex conjugate of $z = 5 - 2i$ is $\bar{z} = 5 + 2i$.

The complex conjugate of $z = a + bi$ is $\bar{z} = a - bi$.

The complex conjugate of $z = a - bi$ is $\bar{z} = a + bi$.

The complex conjugate of $z = a + bi$ is $\bar{z} = a - bi$.

The complex conjugate of $z = a - bi$ is $\bar{z} = a + bi$.

The complex conjugate of $z = a + bi$ is $\bar{z} = a - bi$.

QUESTION

Find the complex conjugate of $z = 4 + 5i$.

The complex conjugate of $z = 4 + 5i$ is $\bar{z} = 4 - 5i$.

QUESTION

Find the complex conjugate of $z = 6 - 4i$.

The complex conjugate of $z = 6 - 4i$ is $\bar{z} = 6 + 4i$.

QUESTION

Find the complex conjugate of $z = 1 + 2i$.

The complex conjugate of $z = 1 + 2i$ is $\bar{z} = 1 - 2i$.

QUESTION

Find the complex conjugate of $z = 3 - 4i$.

QUESTION

Find the complex conjugate of $z = 7 + 8i$.

The complex conjugate of $z = 7 + 8i$ is $\bar{z} = 7 - 8i$.

The complex conjugate of $z = 9 - 10i$ is $\bar{z} = 9 + 10i$.

The complex conjugate of $z = 11 + 12i$ is $\bar{z} = 11 - 12i$.

The complex conjugate of $z = 13 - 14i$ is $\bar{z} = 13 + 14i$.

The complex conjugate of $z = 15 + 16i$ is $\bar{z} = 15 - 16i$.

The complex conjugate of $z = 17 - 18i$ is $\bar{z} = 17 + 18i$.

The complex conjugate of $z = 19 + 20i$ is $\bar{z} = 19 - 20i$.

QUESTION

Find the complex conjugate of $z = 21 - 22i$.

The complex conjugate of $z = 21 - 22i$ is $\bar{z} = 21 + 22i$.

The complex conjugate of $z = 23 + 24i$ is $\bar{z} = 23 - 24i$.

The complex conjugate of $z = 25 - 26i$ is $\bar{z} = 25 + 26i$.

The complex conjugate of $z = 27 + 28i$ is $\bar{z} = 27 - 28i$.

The complex conjugate of $z = 29 - 30i$ is $\bar{z} = 29 + 30i$.

