

EQUAZIONI DI PRIMO GRADO

ESERCIZI SVOLTI

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Come si fa la verifica delle equazioni di primo grado? Per poter effettuare la verifica, dobbiamo sostituire all'incognita, la soluzione dell'equazione. Attenzione: Quando si effettua una verifica non è necessario che esca il numero della soluzione, basta che il primo membro sia uguale al secondo. L'equazione è verificata, ed il primo membro è uguale al secondo.

Come si scrive un'equazione di primo grado? Le equazioni di primo grado sono equazioni lineari in cui l'incognita è elevata alla potenza di uno. Si presentano tipicamente nella forma $ax + b = 0$, dove a e b sono numeri noti e x è l'incognita da determinare.

Come capire se un'equazione è di primo grado? A parole: un'equazione di primo grado in una incognita è un'equazione che, in forma normale, ha incognita x elevata a esponente 1 (grado 1); l'incognita può essere solamente moltiplicata per un coefficiente a qualsiasi, e a destra dell'uguale abbiamo un coefficiente numerico b qualsiasi.

Come si tolgono le parentesi nelle equazioni? Quindi niente prodotto ma semplice eliminazioni delle parentesi, ricordando che se le parentesi sono precedute del segno negativo si possono sciogliere cambiando i segni ai termini interni. Se invece il segno che precede è positivo, si tolgono le parentesi senza cambiare nulla.

Come si trova l'incognita in un'equazione? L'espressione algebrica che si trova a sinistra del simbolo di uguaglianza si chiama primo membro, quella che si trova a destra si chiama secondo membro. Le lettere che compaiono nelle due espressioni algebriche rappresentano le incognite dell'equazione.

Come si fa a risolvere un'equazione? Bisogna trovare l'incognita (x) spostandola tra i due membri dell'equazione. Per svolgere l'esercizio bisogna passare tutti i termini con la x dalla stessa parte o membro dell'equazione, e quelli che contengono i numeri dall'altra parte.

Quante sono le soluzioni di un'equazione di primo grado? Oltretutto sappiamo che ci sono solo tre possibilità: una e una sola soluzione (equazione determinata), infinite soluzioni (equazione indeterminata), nessuna soluzione (equazione impossibile).

Quali sono i tre tipi di equazioni? Equazioni determinate. Equazioni indeterminate. Equazioni impossibili. Data un' equazione in forma normale $ax=b$, se a è diversa da zero allora l' equazione è determinata, cioè ha un' unica soluzione $x=b/a$.

Qual è la forma normale di un'equazione di primo grado? Un' equazione è in forma normale se al primo membro ha un solo termine contenente l' incognita e al secondo membro ha solo un termine noto. L' equazione in forma normale è del tipo $ax=b$, dove x è l' incognita, a è il coefficiente dell' incognita e b è il termine noto.

Quando si fanno le equazioni di primo grado? Durante il quarto anno di liceo gli studenti impareranno a: risolvere equazioni esponenziali e logaritmiche. conoscere e rappresentare le funzioni seno, coseno, tangente, cotangente, funzioni logaritmiche, funzioni goniometriche. risolvere equazioni goniometriche.

Quando una equazione di primo grado è impossibile? Un'equazione è impossibile se non ha nessuna soluzione. Non riusciamo a trovare un valore che, sostituito all'incognita, verifica l'uguaglianza.

Quanti tipi di equazioni di primo grado esistono? Quali tipi di equazioni di primo grado esistono? Esistono le equazioni di primo grado lineari ad un'incognita, le equazioni numeriche, le equazioni letterali, le equazioni intere, le equazioni fratte.

Topic in a Nutshell: Answers from HindsonOnline

What is HindsonOnline?

HindsonOnline is a comprehensive online learning platform that provides expert-led courses, tutorials, and resources on a wide range of topics. It offers a unique approach to learning, providing concise and engaging content that enables users to quickly grasp the essentials of any subject.

Q: What is the "Topic in a Nutshell" feature?

A: The "Topic in a Nutshell" feature on HindsonOnline offers concise and informative summaries of key topics, answered by subject matter experts. These summaries provide a quick overview of the most important concepts, providing users with a solid foundation for further exploration or understanding.

Q: What topics are covered in the "Topic in a Nutshell" section?

A: The "Topic in a Nutshell" section encompasses a wide range of subjects, including business, finance, marketing, management, technology, and personal development. Each topic is carefully curated to provide the most essential information in a highly accessible format.

Q: How can I use the "Topic in a Nutshell" answers?

A: The "Topic in a Nutshell" answers can be used in various ways. They can serve as quick references for professionals seeking to refresh their knowledge, as a starting point for further research, or as a convenient way to stay informed about emerging trends.

Q: What are the benefits of using HindsonOnline's "Topic in a Nutshell" feature?

A: The "Topic in a Nutshell" feature offers numerous benefits, including:

- **Concise and actionable content:** Provides the most important information in an easy-to-understand format.
- **Time-saving:** Allows users to quickly grasp the essentials of any topic.
- **Reliable information:** Answers are provided by subject matter experts, ensuring accuracy and credibility.

- **Enhanced knowledge:** Serves as a valuable resource for expanding knowledge and staying informed.

Unveiling the Crimson Labyrinth: A Journey into the Shadows

The Crimson Labyrinth, an enigmatic and treacherous dungeon, has captivated adventurers and lore enthusiasts alike. Its name, a testament to the blood-soaked path that lies within, has become synonymous with the ultimate test of courage and cunning. Here we unravel the mysteries and answer some burning questions surrounding this formidable labyrinth.

1. What lies within the Crimson Labyrinth?

The labyrinth harbors a vast array of horrifying creatures, from grotesque mutated beasts to cunning undead horrors. Each creature possesses unique abilities and weaknesses, forcing adventurers to adapt their strategies constantly. Legends whisper of a hidden treasure at the labyrinth's core, but countless have met their doom in the pursuit of it.

2. How does one navigate the labyrinth?

The Crimson Labyrinth's winding corridors are a labyrinthine nightmare. Its walls are adorned with cryptic symbols and enigmatic puzzles. Adventurers must rely on their wits, observation skills, and ability to decipher the labyrinth's secrets. Traps and dead ends await the unwary, making every step a potential gamble.

3. What dangers lurk in the shadows?

Apart from the monstrous creatures, the labyrinth itself poses formidable dangers. Tricky floor traps, hidden spikes, and treacherous chasms can claim the lives of the unwary. The labyrinth's atmosphere is heavy with an oppressive darkness, which can disorient and sow doubt in the hearts of adventurers.

4. What is the Crimson Labyrinth's history?

The origins of the Crimson Labyrinth are shrouded in mystery. Some believe it was created by an ancient evil as a prison for its vanquished foes. Others whisper that it was once a thriving city transformed by a curse into a cursed underworld. Whatever

its origins, the labyrinth has become a symbol of terror and intrigue.

5. Who has conquered the Crimson Labyrinth?

Only a select few have successfully emerged from the Crimson Labyrinth. Legends speak of valiant knights, cunning rogues, and wise sorcerers who overcame its horrors. Tales of their exploits inspire both fear and admiration, reminding adventurers of the indomitable spirit required to conquer the labyrinth's depths.

Zoho Placement Papers: Unlocking the Gateway to Success with M4Maths.com

Zoho is a renowned software development company known for its innovative and user-friendly products. To secure a position at this prestigious organization, candidates must excel in their placement papers. M4Maths.com offers a comprehensive collection of Zoho placement papers, providing aspiring candidates with an invaluable resource for preparation.

Section 1: Aptitude and Reasoning

This section assesses candidates' problem-solving abilities and logical reasoning skills. Questions typically involve patterns, sequences, analogies, and puzzles. Understanding basic concepts of algebra, geometry, and probability is crucial.

Question: A train leaves Mumbai at 8 am and travels at 60 kmph. Another train leaves Delhi at 10 am and travels at 40 kmph. If the distance between Mumbai and Delhi is 1200 km, at what time will the two trains meet? **Answer:** 4 pm

Section 2: Data Structures and Algorithms

Candidates' proficiency in data structures, algorithms, and software development is tested extensively. Questions cover concepts such as arrays, linked lists, trees, graphs, and sorting algorithms.

Question: Given an array of integers, find the maximum sum of a contiguous subarray. **Answer:** Kadane's Algorithm ($O(n)$ time complexity)

Section 3: Object-Oriented Programming

Zoho emphasizes object-oriented programming principles in its products. Candidates are expected to demonstrate their understanding of classes, objects, inheritance, polymorphism, and exception handling.

Question: Define a class representing a bank account and include methods for depositing, withdrawing, and checking the balance. **Answer:**

```
class BankAccount {
    private int balance;

    public void deposit(int amount) { balance += amount; }
    public void withdraw(int amount) { balance -= amount; }
    public int getBalance() { return balance; }
}
```

Section 4: Database Concepts

Zoho heavily utilizes databases in its products. Candidates must possess a solid understanding of relational database concepts, SQL queries, and database normalization.

Question: Write an SQL query to find the total number of orders placed by each customer in a given time period. **Answer:**

```
SELECT customer_id, COUNT(*) AS order_count
FROM orders
WHERE order_date BETWEEN '2023-01-01' AND '2023-03-31'
GROUP BY customer_id;
```

Section 5: Cloud Computing

Zoho leverages cloud computing extensively. Candidates are expected to have familiarity with cloud platforms, services, and security best practices.

Question: Describe the different types of cloud deployment models and their advantages and disadvantages. **Answer:**

- Public Cloud: Pay-as-you-go model, high scalability, low upfront costs
- Private Cloud: Dedicated infrastructure, high security, higher costs

- Hybrid Cloud: Combination of public and private clouds, flexibility, cost optimization

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