



Filiera teoretică, profilul real, specializarea științele naturii

Filiera tehnologică: profilul servicii, toate calificările profesionale; profilul resurse, toate calificările profesionale; profilul tehnic, toate calificările profesionale

- Toate subiectele sunt obligatorii. Se acordă 10 puncte din oficiu.
- Timpul de lucru efectiv este de 3 ore.

SUBIECTUL I

(30 de puncte)

- 5p 1. Arătați că $2^{-1} + 2^{-2} = 0,75$.
- 5p 2. Rezolvați în mulțimea numerelor reale inecuația $\frac{2}{x-3} < 0$.
- 5p 3. Rezolvați în mulțimea numerelor reale ecuația $\sqrt{x+2} = x+2$.
- 5p 4. La o bancă a fost depusă într-un depozit suma de 900 lei cu o dobândă de $p\%$ pe an. Calculați p , știind că, după un an, în depozit suma este de 1008 lei.
- 5p 5. În reperul cartezian xOy se consideră punctele $O(0,0)$ și $A(2,3)$. Determinați coordonatele punctului B , știind că A este mijlocul segmentului (OB) .
- 5p 6. Determinați măsura x a unui unghi ascuțit, știind că $\frac{\sin x + 4 \cos x}{\cos x} = 5$.

SUBIECTUL al II-lea

(30 de puncte)

1. Se consideră matricele $H(x) = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & \ln x \\ 0 & 0 & 1 \end{pmatrix}$, cu $x \in (0, +\infty)$.
- 5p a) Arătați că $\det(H(x)) = 1$, pentru orice $x \in (0, +\infty)$.
- 5p b) Determinați numărul real α , $\alpha > 0$, astfel încât $H(x) \cdot H(\alpha) = H(x)$, pentru orice $x > 0$.
- 5p c) Calculați determinantul matricei $H(1) + H(2) + \dots + H(2012)$.
2. În $\mathbb{R}[X]$ se consideră polinomul $f = X^3 + 3X^2 - 3X - 1$, cu rădăcinile x_1, x_2, x_3 .
- 5p a) Arătați că polinomul f se divide cu $X - 1$.
- 5p b) Calculați $x_1^2 + x_2^2 + x_3^2$.
- 5p c) Verificați dacă $(2 - x_1)(2 - x_2)(2 - x_3) = 13$.

SUBIECTUL al III-lea

(30 de puncte)

1. Se consideră funcția $f: (0, +\infty) \rightarrow \mathbb{R}$, $f(x) = \sqrt{x} - \ln x$.
- 5p a) Arătați că $\lim_{x \rightarrow 4} \frac{f(x) - f(4)}{x - 4} = 0$.
- 5p b) Demonstrați că funcția f este crescătoare pe intervalul $(4, +\infty)$.
- 5p c) Determinați ecuația asimptotei verticale la graficul funcției f .
2. Se consideră funcția $f: \mathbb{R} \rightarrow \mathbb{R}$, $f(x) = xe^x$.
- 5p a) Arătați că funcția $F: \mathbb{R} \rightarrow \mathbb{R}$, $F(x) = xe^x - e^x + 2012$ este o primitivă a funcției f .
- 5p b) Calculați $\int_1^2 f(\ln x) dx$.
- 5p c) Determinați volumul corpului obținut prin rotația în jurul axei Ox a graficului funcției $g: [1,2] \rightarrow \mathbb{R}$, $g(x) = \sqrt{x}$.

Modele De Subiecte Bac 2012 Edu Ro

Jin-Ying Zhang



Modele De Subiecte Bac 2012 Edu Ro:

Bacalaureat 2012 ,2012 *Limba și literatura română* ,2011 *Bacalaureat la limba și literatura română - 2012*
Cristian Coța,2011

The book delves into Modele De Subiecte Bac 2012 Edu Ro. Modele De Subiecte Bac 2012 Edu Ro is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Modele De Subiecte Bac 2012 Edu Ro, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Modele De Subiecte Bac 2012 Edu Ro
 - Chapter 2: Essential Elements of Modele De Subiecte Bac 2012 Edu Ro
 - Chapter 3: Modele De Subiecte Bac 2012 Edu Ro in Everyday Life
 - Chapter 4: Modele De Subiecte Bac 2012 Edu Ro in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Modele De Subiecte Bac 2012 Edu Ro. This chapter will explore what Modele De Subiecte Bac 2012 Edu Ro is, why Modele De Subiecte Bac 2012 Edu Ro is vital, and how to effectively learn about Modele De Subiecte Bac 2012 Edu Ro.
3. In chapter 2, the author will delve into the foundational concepts of Modele De Subiecte Bac 2012 Edu Ro. This chapter will elucidate the essential principles that need to be understood to grasp Modele De Subiecte Bac 2012 Edu Ro in its entirety.
4. In chapter 3, the author will examine the practical applications of Modele De Subiecte Bac 2012 Edu Ro in daily life. The third chapter will showcase real-world examples of how Modele De Subiecte Bac 2012 Edu Ro can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Modele De Subiecte Bac 2012 Edu Ro in specific contexts. The fourth chapter will explore how Modele De Subiecte Bac 2012 Edu Ro is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Modele De Subiecte Bac 2012 Edu Ro. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Modele De Subiecte Bac 2012 Edu Ro.

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Modele De Subiecte Bac 2012 Edu Ro Introduction

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