

☞ Brevet des collèges Afrique de l'Ouest juin 2003 ☞

L'utilisation d'une calculatrice est autorisée.

**TRAVAUX NUMÉRIQUES**

**12 points**

**Exercice 1**

1. Soit  $A = 5\sqrt{18}$  et  $B = 3\sqrt{50}$ .  
Écrire  $A$  et  $B$  sous la forme  $a\sqrt{b}$  où  $a$  et  $b$  sont des entiers.  
Que remarquez-vous ?
2. Soit  $C = 2 - \sqrt{2}$  et  $D = 2 + \sqrt{2}$ .
  - a. Montrer que  $C \times D$  est entier.
  - b. Calculer  $C^2$  et écrire le résultat sous la forme  $a + b\sqrt{2}$  avec  $a$  et  $b$  entiers.

**Exercice 2**

On donne l'expression  $E = (x + 1)^2 - (x + 1)(2x - 3)$ .

1. Développer et réduire  $E$ .
2. Calculer  $E$  pour  $x = \frac{1}{2}$ .
3. Factoriser  $E$ .
4. Résoudre l'équation  $(x + 1)(3x - 2) = 0$ .

**Exercice 3**

1. Montrer que le PGCD des nombres 372 et 775 est égal à 31 ; écrire les calculs.
2. Un chef d'orchestre fait répéter 372 choristes hommes et 775 choristes femmes pour un concert. Il veut faire des groupes de répétition de sorte que :
  - le nombre de choristes femmes est le même dans chaque groupe ;
  - le nombre de choristes hommes est le même dans chaque groupe ;
  - chaque choriste appartient à un groupe.
  - a. Quel nombre maximal de groupes pourra-t-il faire ?
  - b. Combien y aura-t-il alors de choristes hommes et de choristes femmes dans chaque groupe ?

**TRAVAUX GÉOMÉTRIQUES**

**12 points**

**Exercice 1**

Le plan est muni d'un repère orthonormé  $(O, I, J)$ .

# Complete Of Colleges 2003

**Arturo Cuomo**



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### **Table of Contents Complete Of Colleges 2003**

1. Understanding the eBook Complete Of Colleges 2003
  - The Rise of Digital Reading Complete Of Colleges 2003
  - Advantages of eBooks Over Traditional Books
2. Identifying Complete Of Colleges 2003
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Complete Of Colleges 2003
  - User-Friendly Interface
4. Exploring eBook Recommendations from Complete Of Colleges 2003
  - Personalized Recommendations
  - Complete Of Colleges 2003 User Reviews and Ratings
  - Complete Of Colleges 2003 and Bestseller Lists

5. Accessing Complete Of Colleges 2003 Free and Paid eBooks
  - Complete Of Colleges 2003 Public Domain eBooks
  - Complete Of Colleges 2003 eBook Subscription Services
  - Complete Of Colleges 2003 Budget-Friendly Options
6. Navigating Complete Of Colleges 2003 eBook Formats
  - ePub, PDF, MOBI, and More
  - Complete Of Colleges 2003 Compatibility with Devices
  - Complete Of Colleges 2003 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Complete Of Colleges 2003
  - Highlighting and Note-Taking Complete Of Colleges 2003
  - Interactive Elements Complete Of Colleges 2003
8. Staying Engaged with Complete Of Colleges 2003
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Complete Of Colleges 2003
9. Balancing eBooks and Physical Books Complete Of Colleges 2003
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Complete Of Colleges 2003
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Complete Of Colleges 2003
  - Setting Reading Goals Complete Of Colleges 2003
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Complete Of Colleges 2003
  - Fact-Checking eBook Content of Complete Of Colleges 2003
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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