

Devoir Commun de Mathématiques 1^{ère} Générale

Mardi 17 mai 2022

Durée de l'épreuve : 1h50

NOM :

Prénom :

Groupe :

Exercice 1 :	/ 10
Exercice 2 :	/ 10
Exercice 3 :	/ 9
Exercice 4 :	/ 11
TOTAL :	/ 40

La qualité de la rédaction et de la présentation entreront pour une part importante dans l'appréciation des copies. Le sujet comporte quatre exercices indépendants.

Le sujet est à rendre avec la copie.

La calculatrice est personnelle et doit être en mode EXAMEN. Vous ne pouvez donc pas la prêter.

Exercice 1 : Suites

(10 points)

Les trois parties de cet exercice sont indépendantes.

Partie A

Un arbre planté en janvier 2000 après la tempête de décembre 1999 mesurait 2 mètres. Il a grandi depuis de 50 centimètres par an. On note T_0 sa taille en centimètres à la plantation en janvier 2000, donc $T_0 = 200$, et T_n sa taille au bout de n années de plantation en centimètres.

- 1) a) Quelle est la nature de la suite (T_n) ? préciser sa raison.
b) En déduire l'expression de T_n en fonction de n .
- 2) En quelle année l'arbre dépassera-t-il 35 mètres si sa croissance se poursuit de la même façon ?
Détaillez votre démarche en utilisant la question 1.
- 3) Déterminer quelle sera la hauteur de l'arbre en 2089 au moment de son abattage (on suppose encore que sa croissance se poursuit de la même façon). Détaillez votre démarche, en particulier le lien avec la suite.

Partie B

Un compte bancaire contient au départ 6000 euros et chaque année sa valeur est multipliée par 1,05.

On note C_0 le montant en euros contenu dans le compte au départ et C_n le montant en euros contenu dans le compte au bout de n années.

- 1) a) Quelle est la nature de la suite (C_n) ? préciser sa raison.
b) En déduire l'expression de C_n en fonction de n .
- 2) Déterminer le montant contenu dans le compte au bout de 50 années. On arrondira si besoin à 0,01 près.
- 3) Déterminer au bout de combien d'années le contenu du compte dépassera pour la première fois les 50 000 euros. Pour justifier que c'est la première fois, on donnera également le montant juste avant ce dépassement. On arrondira si besoin à 0,01 près.

Partie C

En 1772 le grand mathématicien Leonhard Euler a découvert dans ses recherches la suite (P_n) définie pour tout entier naturel n par $P_n = n^2 + n + 41$.

Cette suite a pour particularité que ses 40 premiers termes sont tous des nombres premiers.

- 1) Calculer les quatre premiers termes de la suite (P_n) .
- 2) La suite (P_n) est-elle arithmétique ? géométrique ? justifier les réponses.

Mathematiques 1g

Susan Brendel



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Fundamentals of Discrete Math for Computer Science Tom Jenkyns, Ben Stephenson, 2012-10-16 This textbook provides an engaging and motivational introduction to traditional topics in discrete mathematics in a manner specifically designed to appeal to computer science students The text empowers students to think critically to be effective problem solvers to integrate theory and practice and to recognize the importance of abstraction Clearly structured and interactive in nature the book presents detailed walkthroughs of several algorithms stimulating a conversation with the reader through informal commentary and provocative questions Features no university level background in mathematics required ideally structured for classroom use and self study with modular chapters following ACM curriculum recommendations describes mathematical processes in an algorithmic manner contains examples and exercises throughout the text and highlights the most important concepts in each section selects examples that demonstrate a practical use for the concept in question

Math Calculations for Pharmacy Technicians E-Book Elaine Beale, 2017-12-28 Learn to calculate drug dosages safely and accurately Math Calculations for Pharmacy Technicians 3rd Edition helps you master the competencies required by the American Society of Health System Pharmacists ASHP Designed specifically for Pharmacy Technicians this practical worktext simplifies key calculation concepts and lets you work through hundreds of practice problems Coverage includes a review of basic math skills conversions between measurement systems interpreting drug labels and physicians orders and calculating medication dosages based on a patient's age or body weight The worktext format distills complex content into easy to understand concepts and calculations Math Calculations for Pharmacy Technicians helps you develop the competencies you'll need for a successful career as a Pharmacy Technician Hundreds of practice problems throughout covering calculations conversions and measurements Step by step examples to break down complex equations and formulas into simple building blocks UNIQUE Body system icons next to medication names to help students associate different drugs with their respective disorders and body systems Chapter pretests and posttests to help students assess comprehension and areas of strength and improvement Key terms with definitions and in text highlights accompanied by a handy back of book glossary for reference Tech Notes with helpful advice on handling real life situations in the pharmacy Tech Alerts to warn against common pharmacy and medication errors that could impact patient safety Review of Rules at the end of each chapter to summarize key equations and formulas NEW Enhanced coverage of chemotherapy and TPN total parenteral nutrition calculations NEW Appendix with additional exercises in a comprehensive review NEW Drug labels for realistic examples and problems

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review of essential math Written by noted nursing educator Joyce Mulholland this book offers over 1 400 questions for plenty of practice in mastering math concepts and learning dosage calculations **Mulholland's The Nurse, The Math, The Meds E-Book** Susan Turner,2022-04-16 NEW Next Generation NCLEX case studies are included in the chapters on antidiabetes anticoagulants pediatrics and advanced IV calculations NEW All drugs and their medication labels are updated with new drugs and labels added and discontinued drugs and labels removed NEW and Updated Coverage of diabetic and anticoagulant drugs adds new medications and replaces those that have been discontinued **Sets, Logic and Maths for Computing** David Makinson,2012-02-27 This easy to follow textbook introduces the mathematical language knowledge and problem solving skills that undergraduates need to study computing The language is in part qualitative with concepts such as set relation function and recursion induction but it is also partly quantitative with principles of counting and finite probability Entwined with both are the fundamental notions of logic and their use for representation and proof Features teaches finite math as a language for thinking as much as knowledge and skills to be acquired uses an intuitive approach with a focus on examples for all general concepts brings out the interplay between the qualitative and the quantitative in all areas covered particularly in the treatment of recursion and induction balances carefully the abstract and concrete principles and proofs specific facts and general perspectives includes highlight boxes that raise common queries and clear confusions provides numerous exercises with selected solutions [Lman Practice Guide Ol Additional Maths](#) , [LMAN OL Additional Maths Revision Guide 3](#) Pearson Education, Limited,2007-11-08 **Exam Papers for Gce "o" Level Additional Maths** ,

Introductory Mathematics for the Life Sciences David Phoenix,2002-09-11 Introductory Mathematics for the Life Sciences offers a straightforward introduction to the mathematical principles needed for studies in the life sciences Starting with the basics of numbers fractions ratios and percentages the author explains progressively more sophisticated concepts from algebra measurement and scientific notation through the linear power exponential and logarithmic functions to introductory statistics Worked examples illustrate concepts applications and interpretations and exercises at the end of each chapter help readers apply and practice the skills they develop Answers to the exercises are posted at the end of the text

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Mathematics Universit t Bonn This was the second in a series of annual large meetings devoted to the interface of mathematics and string theory These meetings have rapidly become the flagship conferences in the field Topics include super Riemann surfaces and their super moduli generalized moonshine and K3 surfaces the latest developments in supersymmetric and topological field theory localization techniques applications to knot theory and many more The contributors include many leaders in the field such as Sergio Cecotti Matthias Gaberdiel Rahul Pandharipande Albert Schwarz Anne Taormina Johannes Walcher Katrin Wendland and Edward Witten This book will be essential reading for researchers and students in this area and for all mathematicians and string theorists who want to update themselves on developments in the math string interface *Additional Maths Ol Practice Gd* , **APS-PGT Maths Exam PDF-Army Public School PGT Mathematics Exam-Mathematics Subject Only PDF eBook** Chandresh Agrawal,Nandini Books,2025-03-15 SGN The APS PGT Maths Exam PDF Army Public School PGT Mathematics Exam Mathematics Subject Only PDF eBook Covers Objective Questions With Answers

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