Devoir Commun de Mathématiques
1ère 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 ? Détailler 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). Détailler 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.
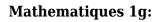
Partie C

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.

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Marco Cascella

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