

DEVOIR DE SYNTHESE
SECTION : SCIENCES DE L'INFORMATIQUE
ÉPREUVE : MATHÉMATIQUES

DUREE : 3 h

COEFFICIENT : 3

Exercice 1 : (4 points)

- 1) Soit x un entier non nul. Si $x \equiv 9 \pmod{10}$ alors :
- a) $x^{402} \equiv 1 \pmod{10}$ b) $x^{402} \equiv -1 \pmod{10}$ c) $x^{402} \equiv 9 \pmod{10}$.
- 2) Soit u la suite définie sur $\mathbb{N}^*$ par $u_n = \frac{n^2 + 2}{n}$
- a) $\lim_{n \rightarrow +\infty} u_n = 0$ b) (u_n) est majorée par 1 c) $u_n \geq n$ pour tout $n \in \mathbb{N}^*$
- 3) Le quotient de la division Euclidienne de -20 par 7 est :
- a) -3 b) -2 c) 2 .
- 4) La limite de la suite de terme général : $u_n = \ln \left(\ln \left(1 + \frac{1}{n^2} \right) \right)$ avec $n \in \mathbb{N}^*$ est :
- a) $+\infty$ b) $-\infty$ c) 0

Exercice 2 : (5 points)

- 1) Déterminer le reste modulo 13 de 5^4 .
- 2) En déduire les restes modulo 13 de chacun des entiers $5^{4k}, 5^{4k+1}, 5^{4k+2}, 5^{4k+3}$ avec $k \in \mathbb{N}$.
- 3) Déterminer les restes modulo 13 de chacun des entiers $5^{262020202041}$ et $5^{555555555555}$.
- 4) Déterminer l'ensemble des entiers naturels n , tels que $5^{2n} + 5^n \equiv 0 \pmod{13}$.

Exercice 3 : (6 points)

A- Soit la fonction g définie sur $]0, +\infty[$ par : $g(x) = \frac{1}{x} - \ln(x)$

- 1) Dresser le tableau de variation de g
- 2) a) Montrer que g réalise une bijection de $]0, +\infty[$ sur $\mathbb{R}$
 b) En déduire que l'équation $g(x) = 0$ admet une unique solution α . Vérifier que $1,7 < \alpha < 1,8$
 c) En déduire suivant les valeurs de x , le signe de $g(x)$.
- 3) a) Montrer que g^{-1} est dérivable sur $\mathbb{R}$.
 b) Calculer $g(1)$ et déduire $(g^{-1})'(1)$.

B- Soit la fonction f définie sur $]0, +\infty[$ par : $f(x) = (x-1)(1-\ln x)$

On désigne par (C) sa courbe représentative dans un repère orthonormé $(O, \vec{i}, \vec{j})$

- 1) a) Montrer que : pour tout $x > 0$, $f'(x) = g(x)$
 b) Dresser le tableau de variation de f .
- 2) Déterminer les points d'intersection de la courbe (C) et de la droite $(O, \vec{i})$.
- 3) Ecrire une équation cartésienne de la tangente (T) à la courbe (C) au point d'abscisse 1.
- 4) Soit la fonction F définie sur $]0, +\infty[$ par :
$$\begin{cases} F(x) = (x^2 - 2x)(1 - \ln x) & \text{si } x > 0 \\ F(0) = 0 \end{cases}$$
- a) Etudier la continuité et la dérivabilité de F à droite en 0.
 b) Montrer que pour tout $x > 0$ on a : $F'(x) = 2 - x + 2f(x)$
 c) En déduire la primitive de f sur $]0, +\infty[$; qui s'annule en 1.

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N Colangelo



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