DEVOIR DE SYNTHESE SECTION: SCIENCES DE L'INFORMATIQUE DUREE:3 h

Deuxième trimestre

COEFFICIENT: 3

Exercice 1: (4 points)

Soit x un entier non nul. Si x = 9 (mod 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 IN* par $u_n = \frac{n^2 + 2}{n^2 + 2}$

a)
$$\lim_{n \to +\infty} u_n = 0$$

b)
$$(u_n)$$
 est majorée par 1

3) Le quotient de la division Euclidienne de -20 par 7 est :

Exercice 2: (5 points)

Déterminer le reste modulo 13 de 5⁴.

En déduire les restes modulo 13 de chacun des entiers 5th, 5^{th+1}, 5^{th+2}, 5^{th+3} avec k∈IN.
Déterminer les restes modulo 13 de chacun des entiers 5^{26/202020202041} et 5^{26/20202020341}.

4) Déterminer l'ensemble des entiers naturels n, tels que 5²ⁿ + 5ⁿ = 0 (mod 13).

Exercice 3: (6 points)

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

Dresser le tableau de variation de g

a) Montrer que g réalise une bijection de 0, +∞ sur 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 'est dérivable sur R.

b) Calculer g(1) et déduire g-1 '(1).

B- Soit la fonction f définie sur | 0, +∞ | par : f(x) =(x −1)(1 −ln x)

On désigne par (C) sa courbe représentative dans un repère orthonormé (O, i, j)

1) a) Montrer que : pour tout x > 0, f'(x) = g(x)

b) Dresser le tableau de variation de f.

Déterminer les points d'intersection de la courbe (C) et de la droite (O, 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 $\left[0, +\infty\right]$ 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,+x| ; qui s'annule en 1.

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Yicheng Fang

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