

الصفحة	2	RS 22F	الامتحان الوطني الموحد للبكالوريا - الدورة الاستدراكية 2021 - الموضوع - مادة: الرياضيات- شعبة العلوم التجريبية مسلك علوم الحياة والأرض ومسلك العلوم الفيزيائية (خيار فرنسية)	OC
3				

Exercice 1 : (4 points)

Soit (u_n) la suite numérique définie par : $u_0 = \frac{1}{3}$ et $u_{n+1} = \frac{1+u_n}{3-u_n}$ pour tout n de $\mathbb{N}$

1) Montrer que pour tout n de $\mathbb{N}$, $0 < u_n < 1$

2) a) Montrer que pour tout n de $\mathbb{N}$ $u_{n+1} - u_n = \frac{(u_n - 1)^2}{3 - u_n}$

b) Montrer que la suite (u_n) est convergente.

3) On pose $v_n = \frac{1}{1 - u_n}$ pour tout n de $\mathbb{N}$

a) Montrer que (v_n) est une suite arithmétique et déterminer sa raison et son premier terme.

b) Déterminer v_n en fonction de n et en déduire que $u_n = \frac{n+1}{n+3}$, pour tout n de $\mathbb{N}$

c) Calculer la limite de la suite (u_n)

4) A partir de quelle valeur de n , a-t-on $u_n \geq \frac{1011}{1012}$?

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Exercice 2 : (5 points)

1) Résoudre dans l'ensemble $\mathbb{C}$ des nombres complexes l'équation : $z^2 - 6z + 13 = 0$

On considère l'équation $z^2 - 6z + 13 = 0$ dans $\mathbb{C}$. On pose $\Delta = b^2 - 4ac$. On a $\Delta = 36 - 52 = -16$. On a donc $\sqrt{\Delta} = 4i$ ou $-4i$. On a donc deux solutions complexes conjuguées : $z_1 = 3 + 2i$ et $z_2 = 3 - 2i$.

a) Soit $\frac{z_1 + z_2}{2}$ la somme des solutions.

b) Soit $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires.

c) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$. On a donc $z_1 = 3 + 2i$ et $z_2 = 3 - 2i$.

d) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

e) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

f) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

g) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

h) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

i) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

j) Soit $\frac{z_1 + z_2}{2}$ la somme des parties réelles et $\frac{z_1 - z_2}{2i}$ la somme des parties imaginaires. On a donc $\frac{z_1 + z_2}{2} = 3$ et $\frac{z_1 - z_2}{2i} = 2$.

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