



*L'essence des mathématiques, c'est la liberté.*

On considère la suite  $(U_n)$  définie sur  $\mathbb{N}$  par:  $U_0=2$  et  $U_{n+1}=2-\frac{1}{U_n}$ ,  $n \in \mathbb{N}$ .

1) a) Montrer que pour tout entier naturel  $n$ , on a:  $U_n > 1$ .

b) Montrer que  $(U_n)$  est une suite décroissante.

2) Soit la suite  $(v_n)$  définie sur  $\mathbb{N}$  par :  $v_n = 3 + \frac{1}{U_n - 1}$

a) Montrer que  $(V_n)$  est une suite arithmétique dont on précisera la raison et le premier terme  $v_0$ .

b) Exprimer  $v_n$  en fonction de  $n$ . En déduire  $u_n = \frac{n+2}{n+1}$  pour tout entier naturel  $n$ .

c) Calculer la limite de la suite  $(U_n)$



*Les mathématiques sont une gymnastique de l'esprit et une préparation à la philosophie.*

On considère la suite  $\begin{cases} u_0 = 0 \\ u_{n+1} = \frac{2 + 3u_n}{2 + u_n} \end{cases} n \in \mathbb{N}$

1) Montrer par récurrence que pour tout  $n \in \mathbb{N}$ , on a :  $0 \leq u_n \leq 2$

2) Montrer que  $(u_n)$  est une suite croissante.

3) Soit la suite  $v$  définie sur  $\mathbb{N}$  par  $v_n = \frac{u_n - 2}{u_n + 1}$ .

a) Montrer que  $v_n$  est une suite géométrique de raison  $q = \frac{1}{4}$ .

b) Exprimer  $v_n$  puis  $u_n$  en fonction de  $n$

c) En déduire la limite de la suite  $(u_n)$ .

4) Soit la suite  $w$  définie sur  $\mathbb{N}$  par  $w_0 = 0$  et  $w_{n+1} = w_n + v_n$  pour  $n \in \mathbb{N}$

a) Montrer  $w_n = \frac{8}{3} \left( \left( \frac{1}{4} \right)^n - 1 \right)$  pour  $n \in \mathbb{N}$ .

b) Calculer alors la limite de la suite  $(w_n)$

# Epreuve Mathematique Secondaire 3

**Ian Pickup**



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