

Exercice 8 page 9

Sésamath

Maths TS



Écrire u_{n+1} et u_{n-1} en fonction de n pour la suite (u_n) définie pour tout $n \in \mathbb{N}$ par :

1 $u_n = 5n - 3$

2 $u_n = \frac{1 - 3^n}{n + 1}$

3 $u_n = 9^{n+3}$

1 $u_n = 5n - 3.$

$$u_{n+1} = 5(n+1) - 3 = 5n + 2.$$

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$$u_{n-1} = 5(n-1) - 3 = 5n - 8.$$

$$2 \quad u_n = \frac{1 - 3^n}{n + 1}$$
$$u_{n+1} = \frac{1 - 3^{n+1}}{n + 1 + 1},$$

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$$u_{n+1} = \frac{1 - 3^{n+1}}{n + 1 + 1},$$

$$u_{n+1} = \frac{1 - 3^{n+1}}{n + 2}.$$

$$2 \quad u_n = \frac{1 - 3^n}{n + 1}$$

$$u_{n-1} = \frac{1 - 3^{n-1}}{n - 1 + 1},$$

$$2 \quad u_n = \frac{1 - 3^n}{n + 1}$$

$$u_{n-1} = \frac{1 - 3^{n-1}}{n - 1 + 1},$$
$$u_{n-1} = \frac{1 - 3^{n-1}}{n}$$

$$3 \quad u_n = 9^{n+3}$$

$$u_{n+1} = 9^{n+1+3} = 9^{n+4}.$$

3 $u_n = 9^{n+3}$

$$u_{n-1} = 9^{n-1+3} = 9^{n+2}.$$