ALESSANDRO

Classe: 5°D

12/05/2025

Recupero serie

A. (__/1) Dare una definizione di serie.

Nome e cognome:

B. (__/2) Per ogni serie scrivi la ridotta di ordine 3 s_3

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3. $\sum_{n=4}^{+\infty} \log(n-3)$

C. (__/3) Studiare le seguenti serie geometriche, se sono convergenti calcolarne la somma.

4.
$$\sum_{n=0}^{+\infty} (4 - \sqrt{15})^n$$

5.
$$\sum_{n=1}^{+\infty} \frac{(-1)^n}{2^{n+4}}$$

6.
$$\sum_{n=1}^{+\infty} \frac{18^n + 3^n}{6^n}$$

E. (__/3) Studiare le seguenti serie telescopiche

7.
$$\sum_{n=2}^{+\infty} \left[\sqrt{n-1} - \sqrt{n-2} \right]$$

8.
$$\sum_{n=0}^{+\infty} \left(\frac{1}{n+5} - \frac{1}{n+6} \right)$$

9.
$$\sum_{n=1}^{+\infty} \ln(1+\frac{1}{n})$$

F. (___/1) Dare una definizione di serie armonica.