

UNIVERSITÀ DEGLI STUDI ROMA TRE - MATEMATICA
ESERCIZI DI AM120

A.A. 2024/2025 - ESERCITAZIONE II

Esercizio 1.

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

$$(2) \sum_{n=1}^{+\infty} \sqrt{n}(\sqrt[3]{n^6 + n} - n^2);$$

$$(3) \sum_{n=1}^{+\infty} (-1)^n \frac{n-4}{n^2+1};$$

$$(4) \sum_{n=1}^{+\infty} (-1)^n \sqrt[3]{n} \ln \left(1 + \frac{1}{n}\right);$$

$$(5) \sum_{n=1}^{+\infty} (-1)^n (\sqrt{n+1} - \sqrt{n});$$

$$(6) \sum_{n=1}^{+\infty} (-1)^n \frac{1}{n!};$$

$$(7) \sum_{n=1}^{+\infty} (-1)^n \frac{(\ln \sqrt{n})^4}{n};$$

$$(8) \sum_{n=1}^{+\infty} (e^{1/n} + e^{-1/n} - 2);$$