

CC1 – Multiple choice test

Tuesday, October 3rd

Duration: 45 min.

No document nor electronic devise authorized. Be sure to completely blacken your answer boxes, unclear answers will be automatically discarded.

Some questions may have several correct answers.

divergent

The series $\sum_{n} \left(1 - n \ln \left(\frac{2n+1}{2n-1} \right) \right)$ is

Question 8

convergent

CORRECTION

Question 9 The series $\sum_{k=2}^{+\infty} \left(\frac{1}{\sqrt{k-1}} + \frac{1}{\sqrt{k+1}} - \frac{2}{\sqrt{k}} \right)$ equals

Question 10 The series $\sum_{n=0}^{+\infty} \left(\frac{n+1}{3^n} \right)$ equals

 \square $+\infty$ \square 9/4 \square 1/3 \square 3/2