CC 03 3RD INTERNAL

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1. The infinite series $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \cdots$

    a) is convergent   b) is divergent

    c) oscillates   d) oscillates infinitely

- ⭕ a
- ⭕ b
- ⭕ c
- ⭕ d

2. Indicate the correct statement from the following.

    a) A bounded sequence is convergent

    b) A monotonic sequence is convergent

    c) A bounded and monotonic sequence is convergent

    d) A convergent sequence may not be bounded

- ⭕ a
- ⭕ b
- ⭕ c
- ⭕ d

3. The series $\sum_{n=1}^{\infty} \left(\frac{n^2+1}{2n^3+1} + 5 \right)$ is

   a) is convergent   b) is divergent

   c) oscillates   d) nothing can be said

○ a

○ b

○ c

○ d

4. The series $\sum \frac{1}{(2n+1)^n}$ is

   a) is convergent   b) is divergent

   c) oscillates   d) nothing can be said

○ a

○ b

○ c

○ d

5. The infinite series $\sum \frac{|\sec(1+2n)|}{\sqrt[3]{n}}$ is

a) is convergent   b) is divergent

c) oscillates   d) nothing can be said

○ a

○ b

○ c

○ d

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