

REAL ANALYSIS
DR OSLER

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I SOLUTIONS TO HW ON SERIES

- 1/ $\sum_0^{\infty} \frac{2^n}{n!}$ CONV. C, E
- 2/ $\sum 3^n$ DIV A, C, E
- 3/ $\sum \frac{1}{\ln(n)}$ DIV B, (D?)
- 4/ $\sum \frac{n^4}{n^5+4}$, DIV B, D
- 5/ $\sum (-1)^n \log n$, DIV A
- 6/ $\sum \frac{2n+2}{3n+4}$, DIV A, B
- 7/ $\sum \frac{1}{\sqrt{(n+1)(n+2)(n+3)}}$, CONV, B
- 8/ $\sum \frac{(-)^n}{\log n}$ CONV, G
- 9/ $\sum \frac{(-1)^n}{\sqrt{n}}$ CONV, G
- 10/ $\sum \frac{1}{(\ln n)^n}$ CONV, C, F
- 11/ $\sum \frac{\log n}{n^2}$, CONV, B
- 12/ $\sum \frac{n^3}{4^n}$, CONV, C, E
- 13/ $\sum \frac{1}{n\sqrt{n}}$, CONV, B

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II SOLUTIONS TO HW ON SERIES

1/ $\sum \frac{(-1)^n}{n}$ B

2/ $\sum \frac{\sin nx}{n^4}$ A

3/ $\sum \frac{(-1)^n n}{3^n}$ A

4/ $\sum (-)^n \log n$ C

5/ $\sum \frac{(-1)^n}{\sqrt{n}}$ B

6/ $\sum x^n$ FOR $|x| < 1$ A

7/ $\sum \frac{x^n}{n!}$ ALL x , A